

National Vascular Registry

2013 Report on Surgical Outcomes Consultant-level statistics



June 2013

This report was prepared by

Clinical Effectiveness Unit, The Royal College of Surgeons of England

Sam Waton, NVR Coordinator

Amundeeep Johal, Quantitative Analyst

Oliver Groene, Lecturer

David Cromwell, Senior Lecturer

Vascular Society of Great Britain and Ireland (VSGBI)

David Mitchell, Consultant Vascular Surgeon

Ian Loftus, Consultant Vascular surgeon

	<p>The Healthcare Quality Improvement Partnership (HQIP) promotes quality in healthcare. HQIP holds commissioning and funding responsibility for the National Vascular Registry and other national clinical Audits as part of the National Clinical Audit and Patient Outcomes Programme (NCAPOP).</p>
	<p>The Royal College of Surgeons of England is an independent professional body committed to enabling surgeons to achieve and maintain the highest standards of surgical practice and patient care. As part of this it supports Audit and the evaluation of clinical effectiveness for surgery.</p> <p>The RCS managed the publication of the 2013 annual report.</p>
	<p>The Vascular Society of Great Britain and Ireland is the specialist society that represents vascular surgeons. It is one of the key partners leading the audit.</p>

First published: 28 June 2013, 00:01

This update published: 5 July 2013, 18:30

Contents

Foreword.....	ii
Key messages	iii
Updates.....	v
Background	1
What is elective abdominal aortic aneurysm repair?	2
What is carotid endarterectomy?	2
What information on surgical outcomes is contained in this report?	3
Which surgeons are included in this report?	4
Patient data used in this report	5
What types of people have this surgery?	6
What does the information mean?.....	7
Individual surgeon outcomes for elective AAA repair	8
Individual surgeon outcomes for carotid endarterectomy.....	31
Appendix 1: OPCS codes used in this report.....	54
Glossary and abbreviations.....	55
References	55

Foreword

The Vascular Society has been auditing outcomes following major vascular procedures for over 12 years. The initial focus was to provide assurance to surgeons that the standard of care that they provided was of high quality. However, comparative audits across Europe and reports from NCEPOD highlighted deficiencies in care within the UK following elective repair of infra-renal abdominal aortic aneurysm (AAA). At the same time, clinical trials were establishing carotid surgery as an effective treatment of transient ischemic attack (TIA) and minor stroke.

The effect of this information was to stimulate quality improvement programmes for carotid and AAA surgery. Alongside these developments were evidence-based changes in surgical practice towards earlier carotid surgery for symptomatic disease (TIA) and increased access and use of endovascular AAA repair. The focus of these programmes was to drive improved quality following surgery and to provide reliable information for patients receiving care from vascular surgeons within the UK. We have now been reporting on surgical outcomes by NHS trust for both procedures over a number of years and case ascertainment rates have risen to levels where units can have confidence in the data reported.

We welcome the initiative from the Department of Health to encourage surgeons to take ownership of their data both on an individual and unit basis. It should be recognised that these operations are complex and usually involve patients with significant co-morbidities and the decision to offer an intervention is carefully considered by multi-disciplinary teams. Also, an increasing number of cases are being performed by dual-consultant operating.

Going forward, the NHS needs to support the collection of high-quality data on outcomes, both in the short and long term. It needs to capture the complexities of recording of surgical activity, and this will further enhance the transparency of reporting outcomes.

We believe that this report complements our previous work in placing outcome information in the public domain, to inform patients about the standard of care that they can expect to receive. This report is not designed to be used as a league table of surgeon outcomes but to reflect the standard of care that a patient will receive throughout the UK. We believe that this greater transparency will generate higher quality data collection, which will inform the complex process of risk adjustment and improve the outcome data on which patients will make informed decisions.

The data have been analysed independently by clinical methodologists and statisticians at the Royal College of Surgeons, Clinical Effectiveness Unit and we are grateful for their hard work and critical input in producing this report.

Julian Scott, President Vascular Society

Key messages

- This report presents information on the outcome of surgery for patients who underwent two types of vascular procedure. The first is an elective repair of an infra-renal abdominal aortic aneurysm (AAA). The second is a carotid endarterectomy (CEA).
- The outcome information is presented for consultant surgeons working in NHS acute trusts and Health Boards in the UK. Figures are given for both surgeons and the NHS organisations.
- For elective AAA repairs, the report gives the number of procedures performed by NHS organisations and consenting surgeons, and the proportion of patients who died before discharge after their surgery (postoperative mortality). The figures are based on five years of data from patients who had their operation between 1 January 2008 and 31 December 2012.
- For carotid endarterectomy, the report describes the number of procedures, the median delay from symptom to surgery, and the proportion of patients who died or had a stroke within 30 days of the operation. The outcome information was derived from three years of data, on patients who underwent surgery between 1 October 2009 and 30 September 2012. The median delay was based on one year of data, and relates to patients treated between 1 October 2011 and 30 September 2012.
- Differences in the outcomes of NHS trusts and surgeons were examined using a funnel plot. These test whether the risk-adjusted outcomes of any NHS trust or surgeon differed from the national rate by more than expected.
- 458 consultant surgeons performing elective AAA repairs in UK NHS trusts / Health Boards are described in this report. The number of procedures performed by surgeons ranged from 1 to 237, with a median of 32 operations performed over the five years.
- 429 consultant surgeons performing carotid endarterectomy in UK NHS trusts / Health Boards are described in this report. The number of procedures performed by surgeons ranged from 1 to 165, with a median of 31 operations performed over the three years.
- Both procedures are relatively safe, with over 97% of patients surviving the procedure.

- Mortality rates for individual surgeons differ from the national average because of random variation – some are slightly higher and some lower. All reported surgeon outcomes were within the expected range of these differences.
- Because the variation in surgeon outcomes was consistent with differences caused by random variation, we do not recommend that the surgeons in these tables are ranked by their mortality rate. The effect of random variation is not communicated when figures are ranked. Consequently, ranking these surgeon figures would be misleading and it could make people draw the wrong conclusions about an individual surgeon's performance.
- Six consultant surgeons working in England did not consent to have their surgical outcomes published in the report. Their data were included in the comparative analysis of surgical outcomes and their results were within the expected range.

Updates

The following surgeons have had their figures updated from those included in the first report (that was published 28 June 2013, 00:01):

- Mr Robin Windhaber. Corrections made to cases that were not infra-renal AAA, and additional cases have been added.
- Mr Simon Payne. Removed from list of surgeons undertaking AAA repair, as he no longer does this operation.
- Mr Euan Munro. Corrections made to number of CEA cases that had an outcome known.
- Mr Simon Hobbs. Removed from list of surgeons at Royal Liverpool and Broadgreen University Hospitals NHS Trust as he no longer operates there.
- Mr David Jones. AAA data included under Royal Liverpool and Broadgreen University Hospitals NHS Trust as he now operates there.
- Mr Vish Bhattacharya. Clarification was gained on CEA data and corrections accordingly made.
- Mr Tahir Bhatti. Removed from list of surgeons at Brighton and Sussex University Hospitals NHS Trust as he doesn't operate there. AAA cases at Brighton allocated to correct surgeon.
- Mr Syed Yusuf. Additional AAA cases from Mr Tahir Bhatti correctly attributed to him.
- Ms Sabine Sonnenberg. Removed from list of surgeons at Portsmouth Hospitals NHS Trust as she no longer operates there.

The following surgeons have had their figures updated from those included in the second report (that was published 28 June 2013, 14:30):

- Mr Robin Windhaber. Data on additional patients undergoing AAA repair was supplied.
- Mr Iain Muir. Added to the list of surgeons undertaking AAA repair after giving consent.
- Mr Irfan Akhtar. Corrections made to data AAA repair and CEA. Data on additional patients undergoing AAA repair and CEA was supplied.
- Mr Ahmed Mudawi. Data on additional patients undergoing AAA repair was supplied.
- Miss Sumaira Khan. Data on additional patients undergoing AAA repair was supplied. Now shown under Sherwood Forest Hospitals NHS Foundation Trust.
- Mr Richard Gibbs. Data on additional patients undergoing CEA was supplied and corrections made to CEA data.
- Mr Robin Baker. Added to the list of surgeons undertaking AAA repair and CEA after giving consent.

- Mr Michael Salter. Removed from the list of surgeons undertaking AAA repair, as he no longer does the operation.
- Mr John Kurikose. Data on additional patients undergoing AAA repair was supplied.
- Mr James Clarke. Removed from the list of surgeons undertaking AAA repair and CEA as he has now retired.
- Mr Anthony Fox. Corrections made to data on AAA repair.
- Mr Andrew Houghton. Corrections made to data on AAA repair.
- Miss Catherine Merriman. Corrections made to data on AAA repair.
- Mr Timothy Sykes. Corrections made to data on AAA repair.
- Mr SMG Kibria. Corrections made to data on CEA.

The funnel plots assessing performance have also been updated. There are no outliers.

Other figures have not changed from the original version of the report.

Background

The Vascular Society of Great Britain and Ireland is pleased to publish surgical outcomes for two common vascular procedures: elective repair of abdominal aortic aneurysm (AAA), and carotid endarterectomy (CEA). Information about the outcomes after these two procedures has been published for vascular services in NHS trusts since 2008, but this is the first time information has been available for individual consultant surgeons.

The information contained in this report has been drawn from data collected by the National Vascular Database and the UK Carotid Interventions Audit. These projects have been used by vascular surgical services in the UK to monitor their practice and outcomes since 2005, and have been part of a broad quality improvement programme undertaken by the Vascular Society in collaboration with other organisations. A part of this programme was the Abdominal Aortic Aneurysm Quality Improvement Programme funded by the Health Foundation (an independent charity) which ran from 2008 until 2013. During this time, the mortality rate following elective abdominal aortic aneurysm (AAA) repair in the United Kingdom fell from 7% to 2.4%.

This improvement in care has coincided with a move from the traditional “surgical firm” structure to a more open, multi-disciplinary team structure. Surgeons are seeing the value of working in a team to provide high quality outcomes, and the role of anaesthetists and radiologists in providing specialist care are more established. Specialist nurses are acting as a clear focus for communication and are a critical part of a successful team.

In 2013, the National Vascular Registry was formed by the amalgamation of the National Vascular Database and UK Carotid Interventions Audit projects. The Registry was commissioned by the Healthcare Quality Improvement Partnership (HQIP) and is based in the Clinical Effectiveness Unit of the Royal College of Surgeons of England. HQIP has funded the Registry to measure the quality and outcomes of care for patients who undergo vascular surgery in England and Wales. It will capture information on the main procedures performed by vascular surgeons – repair of abdominal aortic aneurysm, carotid endarterectomy, lower limb bypass and lower limb amputation.

As part of the NHS Commissioning Board’s publication “Everyone Counts: Planning for Patients 2013/14”, ten national clinical audits were asked to report on surgical outcomes by consultant surgeons by the summer of 2013. The National Vascular Registry was one of the clinical audits included in this initiative. In this report, we describe postoperative outcomes for elective repair of infra-renal abdominal aortic aneurysms and carotid endarterectomy.

What is elective abdominal aortic aneurysm repair?

An abdominal aortic aneurysm (AAA) is the local expansion of the abdominal aorta, a large artery that takes blood from the heart to the abdomen and lower parts of the body. It is a condition that tends not to produce symptoms until it ruptures. An aneurysm can rupture without warning, causing sudden collapse or death of the patient. Most abdominal aortic aneurysms occur below the kidneys (i.e., are infra-renal).

A ruptured AAA requires emergency surgery. Screening and intervening to treat larger AAAs reduces the risk of rupture, and the National Abdominal Aortic Aneurysm Screening Programme (NAAASP) was introduced in 2010 to identify and treat at risk aneurysms prior to rupture. Once detected, treatment to repair the AAA before it ruptures can be planned with the patient, and surgery is typically performed as an elective procedure.

Aneurysms may be treated by either open surgery, or by an endovascular repair (EVAR). In open surgery, the AAA is repaired through an incision in the abdomen. An EVAR procedure involves the insertion of a stent graft through the groin. Both are major operations. The risk of death after elective AAA surgery is roughly 4% for open surgery and 1% following endovascular repair. The decision on whether EVAR is preferred over an open repair is made jointly by the patient and the clinical team, taking into account characteristics of the aneurysm, patient age, and fitness.

What is carotid endarterectomy?

As people age, they can suffer from the narrowing of the carotid arteries. These are the major arteries which supply blood to the brain, head and neck. This narrowing of the arteries is caused by a build-up of plaque. This plaque may cause turbulent blood flow and material breaking off can lodge in the brain causing either transient symptoms or a stroke. Those with transient symptoms have the highest risk of stroke in the period immediately following the onset of symptoms.

The risk of stroke can be reduced if surgery is performed quickly following onset of symptoms. For patients with a narrowing of an artery between 50% and 99%, it is recommended that surgery to remove the plaque, a carotid endarterectomy, is performed within two weeks.

What information on surgical outcomes is contained in this report?

This report describes outcomes following carotid and elective abdominal aortic aneurysm surgery. It provides a measure of the safety of the procedure. This is a fundamental aspect of care but it only reflects one part of the spectrum of outcomes that are important to patients. Over time, we expect to report on a wider set of outcomes for patients.

For AAA repair, the report gives the proportion of patients who died in hospital after surgery for those patients who had an elective repair of an infra-renal abdominal aortic aneurysm. Patients undergoing an emergency repair of their AAA or whose AAA was above the kidneys are not included in this analysis. The figures include both open and endovascular repairs analysed together because most surgeons do not undertake sufficient numbers of either procedure to produce reliable outcome figures for them individually.

The rates of mortality after AAA repair are based on five years of data, and include patients who were admitted to hospital and had their surgery between 1 January 2008 and 31 December 2012.

For carotid endarterectomy, the report describes the proportion of patients who had a stroke or died within 30 days of the operation. These figures are based on three years of data, and include patients who underwent a carotid endarterectomy between 1 October 2009 and 30 September 2012. A different timescale was selected for carotid endarterectomies because the quality of the data submitted to the audit improved significantly in late 2009 and this makes the outcome figures more reliable.

We also present the median delay from symptom to carotid endarterectomy by NHS trust for patients who underwent a carotid endarterectomy between 1 October 2011 and 30 September 2012 for moderate symptoms. This information is only reported by NHS trust for the following reasons.

1. Reporting by NHS trust more accurately reflects the practice within a hospital as the UK Carotid Endarterectomy Audit recommends that patients are referred to the next available operating list rather than an individual surgeon.
2. There has been a considerable reduction in the median delay from symptom to carotid endarterectomy since 2009 and using older data could give a misleading impression of times between symptom and surgery.

Which surgeons are included in this report?

This report contains information on consultant surgeons who are currently undertaking AAA repair or carotid endarterectomy procedures in English NHS hospitals and who submitted data to the National Vascular Database and Carotid Interventions Audit. It also contains information on surgeons working in Scotland, Wales and Northern Ireland who have consented to have their figures published.

Vascular surgeons were asked to consent to have their surgical outcome information published, and almost all of those asked have consented. NHS Commissioning Board's initiative to publish surgical outcomes covers consultant surgeons working in England, and only six did not consent to have their figures published.

The report does not contain the results of any surgeon who

1. was known to have retired from the NHS
2. is active within the NHS but has informed us that he/she is no longer performing these procedures.

The report gives the names of surgeons with five or fewer cases but shows their results as an asterisk (*). This is to prevent individual patients from being identified and is in line with guidance from the Office for National Statistics.

There are various reasons why surgeons may have few procedures in the database. First, they may have only been appointed as a consultant during the last year or two. Second, some surgeons with a practice that specialises in the treatment of complex AAA may have small numbers of infra-renal AAA reported. This report does not comment on any complex or emergency AAA repair. Finally, some surgeons may have lower numbers than expected because data on some patients were not submitted to the NVD or because the data that was entered were not complete.

Some surgeons work in more than one NHS trust. The figures for surgeons were produced from all patients that they operated on, and cover all hospitals in which they have worked. The figures for NHS trusts were produced from only those patients that were operated on in their hospitals. Consequently, the total number of patients shown as being treated in an NHS trust may not be the same as the total number of operations performed by surgeons working in an NHS trust.

Many surgeons now perform AAA surgery in pairs, operating together. We are not able to reflect this in this report. Cases are reported against the surgeon with primary responsibility for the care of the patient. This report should be used in conjunction with the unit level report produced by the Vascular Society in March 2012 (<http://www.vsqip.org.uk/wp/wp-content/uploads/2013/06/VSGBI-Mortality-Report.pdf>).

Patient data used in this report

The data on these vascular procedures were collected using the National Vascular Database (NVD). The NVD is a secure web-based data collection system used by vascular surgeons and other members of the vascular team to enter clinical data on each patient undergoing an operation.

For all types of operation, the NVD captures information about the demographics of a patient (their age, sex, and region of residence), as well as where and when the patient was admitted to hospital. For AAA repair, further information is captured on the severity of a patient's condition, the type and timing of surgery received, and the care prior to discharge from hospital. For carotid endarterectomy procedures, further information is collected on the level of stenosis and other symptoms that the patient has suffered, the time taken between the time symptoms were first experienced and the date of surgery, the type of surgery received, and any complications after surgery. The NVD uses OPCS codes to describe the type of surgery that a patient has undergone. The list of OPCS codes used for this report can be found in **Appendix 1**.

Risk adjustment of surgical outcomes

To compare the practice of individual surgeons, we produced risk-adjusted outcomes for each individual.

The reason for making comparisons using risk-adjusted outcomes is because the characteristics of patients treated by surgeons will vary, and the outcome of care will be influenced by these characteristics – on average, outcomes are often worse for sicker patients. Risk adjustment allows us to take account of these factors.

For outcomes after AAA repair, we constructed a risk model using logistic regression that included the following variables: patient age, sex, and type of procedure. This model performed well in terms of its calibration and discrimination. Often information about the severity of disease is added to a risk adjustment model but a minority of patient records in the dataset were missing this information for one or two variables and, to avoid dropping these patients from our analysis, we did not use these variables for risk adjustment.

For outcomes after CEA, the risk model included: patient age, sex, whether the patient was symptomatic and the pre-operative Rankin score.

What types of people have this surgery?

The report contains the information on 21,266 patients who had an elective repair of an infra-renal AAA and 15,751 patients who underwent carotid endarterectomy. Both procedures tend to be performed on older people with the majority being aged between 70 and 80 years. Carotid endarterectomies were performed on twice as many men than women. For elective AAA repairs, only 1 in 8 procedures were performed on women.

Both procedures are relatively safe, with over 97% of patients surviving the procedures. The risk of a complication after either procedure increases slightly with age.

TABLE 1: Description of patients undergoing AAA repair and their summary outcomes

Patient characteristic	No. of patients	(%)	Per cent of patients discharged alive	Per cent of patients who died in hospital
Age (years)				
Under 60	616	(2.9)	99.2	0.8
60 to 69	5,037	(23.7)	98.8	1.2
70 to 79	10,444	(49.1)	97.7	2.3
80 and older	5,169	(24.3)	96.8	3.2
Male	18,583	(87.4)	98.0	2.0
Female	2,683	(12.6)	96.4	3.6
All procedures	21,266		97.8	2.2
Open repair	8,581	(40.4)	95.9	4.1
Endovascular repair	12,685	(59.6)	99.1	0.9

TABLE 2: Description of patients undergoing carotid endarterectomy and summary outcomes

Patient characteristic	No. of patients	(%)	Per cent of patients alive and without a stroke after 30 days	Per cent of patients who died or had a stroke after 30 day
Age (years)				
Under 60	1,833	(11.6)	98.3	1.7
60 to 69	4,294	(27.3)	97.9	2.1
70 to 79	6,077	(38.6)	97.8	2.2
80 and older	3,547	(22.5)	96.8	3.2
Male	10,610	(67.4)	97.6	2.4
Female	5,141	(32.6)	97.8	2.2
Symptomatic	13,538	(86.0)	97.6	2.4
Non-symptomatic	2,213	(14.0)	97.8	2.2
All procedures	15,751		97.6	2.4

What does the information mean?

In this report, we present tables that contain

- the surgeon's name
- the hospital in which they work
- the number of operations they did, and
- the outcome for the procedure reported.

For AAA repairs, the outcome is proportion of patients who died after the operation while in hospital. For carotid endarterectomy, the outcome is the proportion of patients who had a stroke or died within 30 days of the operation.

We do not recommend that the surgeons in these tables are ranked by their mortality rate. Surgeons will always differ from the national average because of random variation – some will be higher and some lower. This variation is not communicated when figures are ranked. Consequently, ranking these surgeon figures would be misleading and it could make people draw the wrong conclusions about an individual surgeon's performance.

We have assessed whether there are systematic differences between surgeon outcomes by using a funnel plot. This is a widely used graphical method for comparing the outcomes of surgeons or hospitals [Spiegelhalter, 2005]. The report includes funnel plots of risk-adjusted outcomes for both AAA repairs and carotid endarterectomy.

In these plots, each dot represents a surgeon. The solid horizontal line is the national average. The vertical axis indicates the outcome with dots higher up the axis showing surgeons with a higher mortality rate. The horizontal axis shows surgical activity with dots further to the right showing the surgeons who perform more operations.

The benefit of funnel plots is that they show whether the outcomes of surgeons differ from the national average by more than would be expected from random fluctuations. Random variation will always affect outcome information like mortality rates, and its influence is greater among small samples. This is shown by the two funnel-shaped dotted lines. These lines define the region within which we would expect the outcomes of surgeons to fall if their outcomes only differed from the national rate because of random variation.

If the outcomes of a surgeon fell outside the outer limits, there could be a systematic reason for the higher or lower rate, and they would be flagged as an outlier for further investigation. Outliers are managed according to the outlier policy of the Vascular Society, drawn up using guidance from the Department of Health. It can be found at <http://www.vsqip.org.uk/wp/wp-content/uploads/2013/06/National-Vascular-Registry-Outlier-Policy.pdf>.

Individual surgeon outcomes for elective AAA repair

The following pages contain the surgical outcomes for consultant surgeons undertaking elective AAA repair for infra-renal abdominal aortic aneurysms. The tables organise the surgeon under the NHS trust at which they work. NHS trusts are organised by geographical region. The reported mortality rate by each surgeon is their overall rate, and reflects their individual practice and their mix of open and EVAR procedures. It is not the risk-adjusted rate and should NOT be used to make comparisons across surgeons.

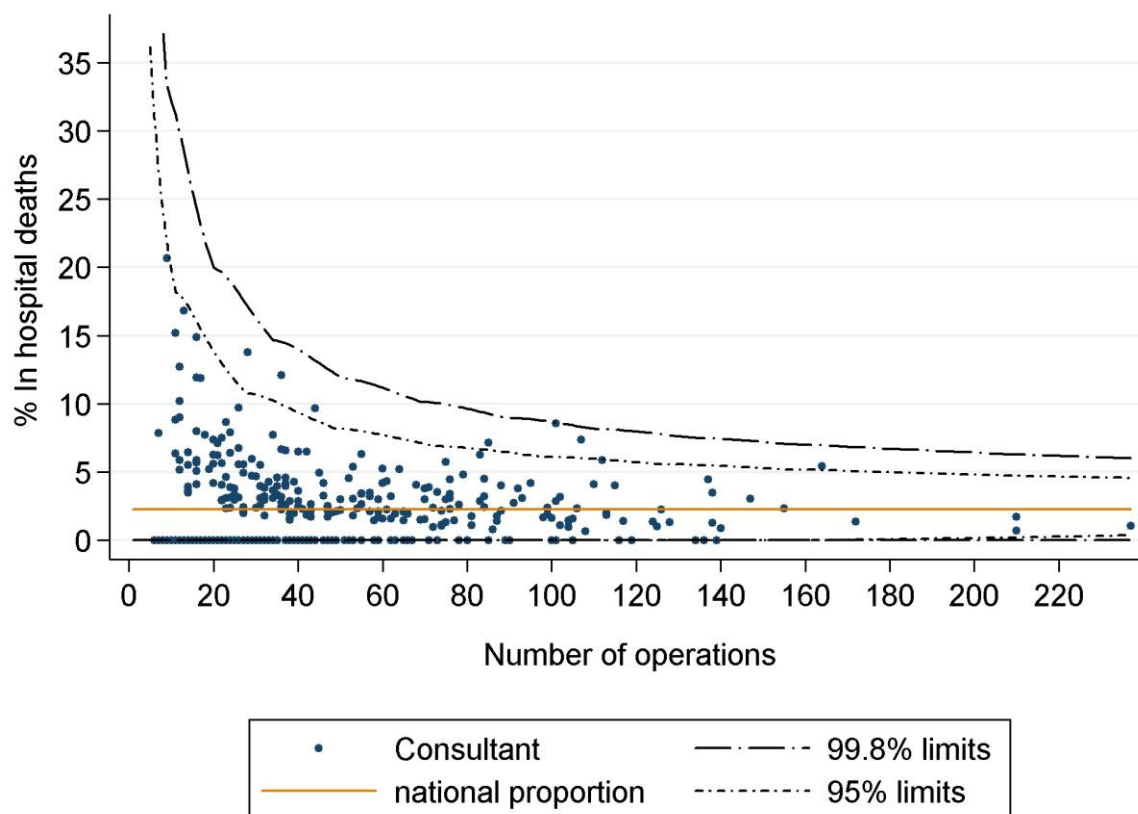
The status column indicates whether the surgeon had outcomes in the expected range given their level of activity (▲) or was found to be an outlier (X) in our assessment of their **risk-adjusted** outcomes. We did not find that any surgeon had outcomes that differed from the national average by more than would be expected from random fluctuations alone. The comparative, risk-adjusted mortality rates of surgeons are shown in the funnel plot in Figure 1. All surgeons are performing within the range expected.

Some surgeons work in more than one NHS trust. The figures for surgeons were produced from all patients that they operated on, and cover all hospitals in which they have worked. The figures for NHS trusts were produced from only those patients that were operated on in their hospitals. Consequently, the total number of patients shown as being treated in an NHS trust may not be the same as the total number of operations performed by surgeons working in that NHS trust. NHS trust figures may also be larger than the total reported for individual surgeons because retired surgeons have not been included in this report.

Key to table column headings

Trust	Name of the NHS trust
Name	Name of consultant surgeon
GMC	GMC number of consultant surgeon
AAA	Total number of AAA repair procedures performed
Open	Number of open repair procedures performed
EVAR	Number of EVAR procedures performed
Mortality	Overall in-hospital mortality rate for that surgeon (unadjusted)
Status	Whether the surgeon mortality was within the expected range

Figure 1: Funnel plot of risk-adjusted in-hospital mortality after elective AAA repair, with surgeon figures shown in comparison to the national average rate of 2.2%



East Midlands

Trust	Name	GMC	AAA	Open	EVAR	Mortality	Status
Derby Hospitals NHS Foundation Trust			196	60	136	1.5%	
	Mr Kumar Abayasekara	4563468	7	2	5	0.0%	▲
	Mr Amir El-Tahir	4276304	15	3	12	0.0%	▲
	Mr Gary Hicken	3309599	11	11	0	0.0%	▲
	Mr Muthu Lingam	3204467	19	0	19	0.0%	▲
	Mr John Quarmby	3190951	59	17	42	0.0%	▲
	Mr Timothy Rowlands	4027531	81	34	47	1.2%	▲
Northampton General Hospital NHS Trust			129	48	81	3.1%	
	Mr Vijay Bahal	3378858	32	24	8	3.1%	▲
	Mr Avtar Brar	3019999	19	18	1	0.0%	▲
	Mr Robert Hicks	3337615	47	18	29	2.1%	▲
	Mr Sreevalsan Kappadath	4761462	20	11	9	0.0%	▲
	Mr Gabor Libertiny	4267092	34	15	19	2.9%	▲
	Mr David Ratliff	2381565	33	7	26	3.0%	▲
Nottingham University Hospitals NHS Trust			325	56	269	1.9%	
	Mr Bruce Braithwaite	3389911	53	4	49	0.0%	▲
	Mrs Sadhana Chandrasekar	4075565	55	7	48	3.6%	▲
	Miss Sumaira Khan	4465560	26	7	19	7.7%	▲
	Mr Shane MacSweeney	2925077	64	10	54	3.1%	▲
	Mr Akin Oluwole	4345752	104	16	88	1.0%	▲
	Mr William Tennant	2601812	47	19	28	2.1%	▲
Sherwood Forest Hospitals NHS Foundation Trust			28	28	0	14.3%	
	Mr Irfan Akhtar	5089742	17	17	0	11.8%	▲
	Miss Sumaira Khan	4465560	26	7	19	7.7	▲
	Mr Khalid Makhdoomi	4281038	16	16	0	12.5%	▲
United Lincolnshire Hospitals NHS Trust			121	121	0	5.8%	
	Mr David Andrew	2551481	7	7	0	0.0%	▲
	Mr Nityanand Arya	4602602	24	24	0	0.0%	▲
	Mr Peter Lee Chong	4056012	39	39	0	7.7%	▲
	Mr Paul Dunning	3141115	22	22	0	4.5%	▲
	Mr John Kuriakose	4464129	12	12	0	8.3%	▲
	Mr Jayarama Mohan	4602578	23	23	0	8.7%	▲
University Hospitals of Leicester NHS Trust			451	110	341	0.4%	
	Mr Matthew Bown	4435394	46	10	36	2.2%	▲
	Professor Nick London	2627946	7	3	4	0.0%	▲
	Mr Mark McCarthy	3441365	134	20	114	0.0%	▲
	Mr Akhtar Nasim	3486272	90	30	60	0.0%	▲
	Professor Ross Naylor	2552073	55	18	37	1.8%	▲
	Mr Robert Sayers	2854672	71	10	61	0.0%	▲

East of England

Trust	Name	GMC	AAA	Open	EVAR	Mortality	Status
Basildon and Thurrock University Hospital NHS Foundation Trust			110	70	40	3.6%	
	Mr Vijay Gadhvi	4714862	39	14	25	0.0%	▲
	Mr Taleb Jeddy	3473959	14	12	2	0.0%	▲
	Mr Kevin Lafferty	2243494	35	22	13	5.7%	▲
	Mr Jay Menon	4258216	40	26	14	5.0%	▲
Bedford Hospital NHS Trust			145	49	96	2.1%	
	Mr Arindam Chaudhuri	4644592	46	11	35	2.2%	▲
	Mr Tapan Mehta	4781923	20	0	20	0.0%	▲
	Mr Nadim Noor	4004778	35	16	19	0.0%	▲
	Miss Debbie Phillips	3310492	17	10	7	0.0%	▲
	Mr Simon Ray-Chaudhuri	3499344	41	23	18	2.4%	▲
	Mr Paul Tisi	3279612	22	7	15	4.5%	▲
Cambridge University Hospitals NHS Foundation Trust			540	115	425	0.6%	
	Mr Nile Allaf	4699846	11	0	11	0.0%	▲
	Mr Jonathan Boyle	3561702	125	29	96	0.8%	▲
	Mr Patrick Coughlin	4424671	23	4	19	0.0%	▲
	Mr Manj Gohel	4639693	12	1	11	0.0%	▲
	Mr Paul Hayes	4003980	105	14	91	0.0%	▲
	Mr Kevin Varty	3089156	210	46	164	0.5%	▲
Colchester Hospital University NHS Foundation Trust			217	89	128	2.8%	
	Mr Abdusalam Abu-Own	3380400	31	12	19	0.0%	▲
	Mr Chris Backhouse	2295116	75	32	43	1.3%	▲
	Mr Sohail Choksy	3676271	76	26	50	3.9%	▲
	Mr Adam Howard	4100753	62	31	31	3.2%	▲
	Mr Isam Osman	4241913	46	22	24	0.0%	▲
East and North Hertfordshire NHS Trust			142	111	31	4.2%	
	Mr Tim Beresford	4097987	*	*	*	*	▲
	Mr Michael Guest	3685363	39	39	0	0.0%	▲
	Mr S M G Kibria	4189143	*	*	*	*	▲
	Mr Matt Metcalfe	4522847	6	0	6	0.0%	▲
	Mr Sadasivam Selvakumar	3536603	93	68	25	5.4%	▲
Ipswich Hospital NHS Trust			131	72	59	1.5%	
	Mr Abdusalam Abu-Own	3380400	31	12	19	0.0%	▲
	Mr Isam Osman	4241913	46	22	24	0.0%	▲
	Mr Fahed Youssef	4681645	*	*	*	*	▲
Mid Essex Hospital Services NHS Trust			172	84	88	0.6%	
	Mr Tom Browne	3207116	73	21	52	0.0%	▲
	Mr Ioannis Panayiotopoulos	3624009	86	54	32	1.2%	▲
	Mr Ioannis Prionidis	4407553	13	9	4	0.0%	▲

Trust	Name	GMC	AAA	Open	EVAR	Mortality	Status
Norfolk and Norwich University Hospitals NHS Foundation Trust			475	245	230	1.9%	
	Mr Matthew Armon	3407208	139	91	48	0.0%	▲
	Mr Rob Brightwell	4717267	7	4	3	0.0%	▲
	Miss Felicity Meyer	3325946	85	23	62	5.9%	▲
	Mr Darren Morrow	4022464	117	54	63	1.7%	▲
	Miss Yvonne Wilson	2921341	52	38	14	0.0%	▲
Peterborough and Stamford Hospitals NHS Foundation Trust			23	23	0	4.4%	
	Mr Brandon Krijgsman	3054071	14	14	0	7.1%	▲
	Mr John Kuriakose	4464129	12	12	0	8.3%	▲
	Mr Peter Taylor	3190243	8	8	0	0.0%	▲
Princess Alexandra Hospital NHS Trust			145	48	97	4.1%	
	Mr Ahmed Abidia	4248587	75	25	50	5.3%	▲
	Mr Jonathan Refson	3285581	70	23	47	2.9%	▲
Queen Elizabeth NHS Trust			12	12	0	0.0%	
	Mr Harald Bausbacher	6107820	*	*	*	*	▲
	Mr Nicholas Redwood	2941431	8	8	0	0.0%	▲
	Mr Chandana Wijewardena	6072634	*	*	*	*	▲
Southend University Hospital NHS Foundation Trust			143	54	89	4.2%	
	Mr James Brown	4332525	32	9	23	0.0%	▲
	Mr Matthew Jakeways	3141641	95	36	59	4.2%	▲
West Hertfordshire Hospitals NHS Trust			154	40	114	1.3%	
	Mr Reda Awad	3045336	43	8	35	0.0%	▲
	Mr Tahir Bhatti	3538258	47	14	33	2.1%	▲
	Mr Mustapha Halawa	6077728	13	3	10	0.0%	▲
	Mr Sanjeev Sarin	2939968	57	16	41	1.8%	▲

London

Trust	Name	GMC	AAA	Open	EVAR	Mortality	Status
Barking, Havering and Redbridge University Hospitals NHS Trust			117	21	96	2.6%	
	Mr Timothy Cheatle	2734998	11	11	0	0.0%	▲
	Mr Julian Coker	3628876	15	1	14	0.0%	▲
	Mr Sabu Jacob	4550475	18	2	16	5.6%	▲
	Mr Gabriel Sayer	4041065	68	6	62	2.9%	▲
	Mr Shukri Shami	2406130	*	*	*	*	▲
	Ms Attavar Srilekha	5189157	*	*	*	*	▲
Barnet and Chase Farm Hospitals NHS Trust			56	12	44	3.6%	
	Mr Hamish Hamilton	2886321	20	8	12	0.0%	▲
	Mr Nicholas Law	2462149	42	10	32	4.8%	▲
	Mr Alexander Loh	2618933	14	1	13	0.0%	▲
Barts Health NHS Trust			191	57	134	2.6%	
	Mr Duncan Bew	4528898	*	*	*	*	▲
	Mr Aidas Raudonaitis	6029716	6	1	5	0.0%	▲
	Mr Wayne Sapsford	3556669	11	3	8	0.0%	▲
	Mr Nigel Tai	3549421	13	5	8	0.0%	▲
	Mr Michael Walsh	2921516	16	6	10	12.5%	▲
	Mr Stephen Brearley	2383732	10	5	5	0.0%	▲
	Professor Karim Brohi	3563656	12	3	9	0.0%	▲
	Mr James Crinnion	3259670	42	13	29	0.0%	▲
	Mr Joe Dawson	4526171	*	*	*	*	▲
	Mr Harpaul Flora	4214300	23	11	12	8.7%	▲
	Mr Vijay Gadhvi	4714862	39	14	25	0.0%	▲
	Mr Martin Griffiths	3591394	*	*	*	*	▲
	Mr Constantinos Kyriakides	3275436	37	6	31	2.7%	▲
Guy's and St Thomas' Hospital NHS Foundation Trust			518	45	473	1.4%	
	Miss Rachel Bell	4115779	136	12	124	0.0%	▲
	Mr Tom Carrell	3564891	75	2	73	1.3%	▲
	Mr Michael Dialynas	4123509	73	1	72	1.4%	▲
	Mr Bijan Modarai	4539762	18	1	17	0.0%	▲
	Professor Peter Taylor	2488699	147	27	120	2.0%	▲
	Mr Mark Tyrrell	3156571	124	22	102	0.8%	▲
	Mr Matt Waltham	4126021	112	0	112	2.7%	▲
	Mr Hany Zayed	6133112	17	0	17	0.0%	▲

Trust	Name	GMC	AAA	Open	EVAR	Mortality	Status
Imperial College Healthcare NHS Trust			273	62	211	0.4%	
	Mr Colin Bicknell	4319889	32	7	25	0.0%	▲
	Mr Morgan McMonagle	6049181	*	*	*	*	▲
	Mr Maziar Mireskandari	3615546	12	3	9	0.0%	▲
	Mr David Nott	2710550	*	*	*	*	▲
	Professor Nigel Standfield	2225131	9	6	3	0.0%	▲
	Mr John Wolfe	1495850	18	14	4	0.0%	▲
	Professor Nicholas Cheshire	3665880	*	*	*	*	▲
	Professor Saroj Das	3384349	33	21	12	0.0%	▲
	Professor Alun Davies	2952147	47	8	39	0.0%	▲
	Mr Ian Franklin	3461118	74	11	63	1.4%	▲
	Mr George Geroulakos	2902324	7	1	6	0.0%	▲
	Mr Richard Gibbs	3469532	30	5	25	0.0%	▲
	Mr Michael Jenkins	3342442	37	6	31	0.0%	▲
King's College Hospital NHS Foundation Trust			291	35	256	0.7%	
	Mr Michael Dialynas	4123509	73	1	72	1.4%	▲
	Mr Andrew McIrvine	1745490	35	7	28	0.0%	▲
	Mr Hisham Rashid	4274773	32	4	28	0.0%	▲
	Mr Mark Tyrrell	3156571	124	22	102	0.8%	▲
	Mr Domenico Valenti	4271598	46	4	42	0.0%	▲
North West London Hospitals NHS Trust			112	15	97	1.8%	
	Professor Saroj Das	3384349	33	21	12	0.0%	▲
	Mr George Geroulakos	2902324	7	1	6	0.0%	▲
	Mr David Greenstein	3330591	32	5	27	3.1%	▲
	Mr Syed Tahir Hussain	3242669	11	1	10	0.0%	▲
	Miss Sophie Renton	2831149	53	5	48	1.9%	▲
Royal Free London NHS Foundation Trust			284	18	266	3.2%	
	Mr Obiekezie Agu	4387161	78	2	76	1.3%	▲
	Miss Meryl Davis	3315578	45	4	41	2.2%	▲
	Miss Fiona Myint	3243543	34	4	30	5.9%	▲
	Mr Toby Richards	4192466	21	3	18	4.8%	▲
	Miss Janice Tsui	4368364	13	1	12	7.7%	▲
	Mr Daryll Baker	3262182	101	0	101	4.0%	▲
	Mr Rován d'Souza	6132814	*	*	*	*	▲
	Mr Hamish Hamilton	2886321	20	8	12	0.0%	▲
	Mr Nicholas Law	2462149	42	10	32	4.8%	▲
	Mr Alexander Loh	2618933	14	1	13	0.0%	▲

Trust	Name	GMC	AAA	Open	EVAR	Mortality	Status
St George's Healthcare NHS Trust			626	222	404	1.1%	
	Mr Stephen Black	4765765	55	0	55	1.8%	▲
	Mr Josh Derodra	2403124	*	*	*	*	▲
	Mr Robert Hinchliffe	4311609	18	0	18	0.0%	▲
	Mr Keith Jones	3585171	23	15	8	0.0%	▲
	Mr Ian Loftus	3675531	140	25	115	0.7%	▲
	Mr Tom Loosemore	2650517	99	33	66	2.0%	▲
	Mr Sudip Ray	3132418	14	8	6	0.0%	▲
	Professor Matt Thompson	3189788	237	105	132	1.3%	▲
University College London Hospitals NHS Foundation Trust			120	13	107	2.5%	
	Mr Obiekezie Agu	4387161	78	2	76	1.3%	▲
	Mr Christopher Bishop	2400561	*	*	*	*	▲
	Mr Nicholas Law	2462149	42	10	32	4.8%	▲
	Mr Toby Richards	4192466	21	3	18	4.8%	▲

North East

Trust	Name	GMC	AAA	Open	EVAR	Mortality	Status
City Hospitals Sunderland NHS Foundation Trust			192	22	170	3.1%	
	Mr Ben Banerjee	3566312	7	7	0	14.3%	▲
	Mr Andrew Brown	3259515	11	2	9	0.0%	▲
	Mr Paul Dunlop	3295863	*	*	*	*	▲
	Mr Klaus Overbeck	3623273	164	3	161	2.4%	▲
	Mr Shanmugam Vetrivel	4039729	7	7	0	0.0%	▲
County Durham and Darlington NHS Foundation Trust			186	119	67	2.2%	
	Mr Hamdy Ashour	3535750	36	2	34	5.6%	▲
	Mr Vish Bhattacharya	4004596	38	13	25	2.6%	▲
	Mr Nigel Corner	2723103	28	27	1	0.0%	▲
	Mr Patrick Cullen	3172973	43	22	21	2.3%	▲
	Mr Philip Davey	4541132	23	3	20	0.0%	▲
	Mr Ian Hawthorn	2659626	32	31	1	6.3%	▲
	Mr Ahmed Mudawi	3535224	21	20	1	0.0%	▲
	Mr Gareth Tervit	3551121	47	29	18	2.1%	▲
Gateshead Health NHS Foundation Trust			74	21	53	4.1%	
	Mr Hamdy Ashour	3535750	36	2	34	5.6%	▲
	Mr Vish Bhattacharya	4004596	38	13	25	2.6%	▲
	Mr Ahmed Mudawi	3535224	21	20	1	0.0%	▲
Newcastle Upon Tyne Hospitals NHS Foundation Trust			506	168	338	2.2%	
	Mr Michael Clarke	3334090	115	40	75	3.5%	▲
	Mr David Lambert	2377636	66	20	46	1.5%	▲
	Mr Tim Lees	2914529	85	28	57	0.0%	▲
	Professor Gerard Stansby	2781392	51	23	28	0.0%	▲
	Ms Lucy Wales	4029935	19	3	16	0.0%	▲
	Mr Michael Wyatt	2579782	137	38	99	3.6%	▲
South Tees Hospitals NHS Foundation Trust			256	66	190	0.8%	
	Miss Monica Hansrani	4126674	51	8	43	0.0%	▲
	Mr Reza Mofidi	4787039	18	2	16	0.0%	▲
	Mr Kurian Mylankal	4627735	22	6	16	0.0%	▲
	Mr Ian Nichol	3617603	87	21	66	1.1%	▲
	Mr Andrew Parry	3240021	65	18	47	1.5%	▲
	Mr Aidas Raudonaitis	6029716	6	1	5	0.0%	▲
	Mr Peng Wong	4611921	*	*	*	*	▲

North West

Trust	Name	GMC	AAA	Open	EVAR	Mortality	Status
Blackpool Teaching Hospitals NHS Foundation Trust			41	15	26	2.4%	
	Mr Hisham Osman	4558033	14	4	10	0.0%	▲
	Mr Vittorio Perricone	4067917	27	11	16	3.7%	▲
Bolton NHS Foundation Trust			110	57	53	2.7%	
	Mr Graeme Ferguson	2553043	74	44	30	1.4%	▲
	Mr Madu Onwudike	4114390	36	13	23	5.6%	▲
Central Manchester University Hospitals NHS Foundation Trust			331	83	248	2.1%	
	Mr David Murray	4209999	35	11	24	2.9%	▲
	Mr Ferdinand Serracino-Inglott	5206200	138	18	120	0.7%	▲
	Mr Vince Smyth	3138782	99	44	55	2.0%	▲
Countess of Chester Hospital NHS Foundation Trust			115	39	76	5.2%	
	Mr Colin Chan	4074485	57	38	19	5.3%	▲
	Mr Ramasubramanyan Chandrasekar	3608281	25	21	4	0.0%	▲
	Mr Sameh Dimitri	4344445	44	16	28	9.1%	▲
	Mr Paul Edwards	2394826	26	17	8	4.0%	▲
	Mr Maher Hamish	5170383	11	4	7	0.0%	▲
	Mr Leith Williams	4126430	27	15	12	0.0%	▲
East Lancashire Hospitals NHS Trust			133	35	98	2.3%	
	Mr Haytham Al-Khaffaf	3151930	22	5	17	0.0%	▲
	Mr Simon Hardy	2573690	28	4	24	7.1%	▲
	Mr Asad Rahi	4267164	33	7	26	0.0%	▲
	Mr Robert Salaman	3280809	50	19	31	2.0%	▲
Lancashire Teaching Hospitals NHS Foundation Trust			210	15	195	1.9%	
	Miss Susan Drinkwater	4129361	15	3	12	0.0%	▲
	Mr Anselm Egun	4148917	89	5	84	0.0%	▲
	Mr George Thomson	2330174	107	8	99	3.7%	▲
North Cumbria University Hospitals NHS Trust			118	41	77	2.5%	
	Mr Thomas Joseph	5198422	31	13	18	3.2%	▲
	Mr Theophilus Ojimba	4281502	69	26	43	1.4%	▲
	Mr Joseph Sathianathan	4635455	14	8	6	7.1%	▲
	Mr Adam Sowinski	4216326	11	2	9	9.1%	▲
Pennine Acute Hospitals NHS Trust			266	50	216	1.9%	
	Mr Riza Ibrahim	4308472	89	3	86	0.0%	▲
	Mr Damian Kelleher	4187787	*	*	*	*	▲
	Mr Taohid Oshodi	3643174	84	11	73	2.4%	▲
	Mr Graham Riding	3560031	50	14	36	2.0%	▲
	Mr Raashid Shahbazi	6090793	*	*	*	*	▲

Trust	Name	GMC	AAA	Open	EVAR	Mortality	Status
Royal Liverpool and Broadgreen University Hospitals NHS Trust			441	76	365	1.8%	
	Mr John Brennan	3073586	91	17	74	2.2%	▲
	Mr Robert Fisher	4035048	138	30	108	2.9%	▲
	Mr David Jones	2439853	27	27	0	0.0%	▲
	Mr Jos Joseph	3393486	13	13	0	0.0%	▲
	Mr Jagjeeth Naik	4015305	63	15	48	0.0%	▲
	Mr Jonathan Smout	4201290	9	3	6	0.0%	▲
	Mr Francesco Torella	4052070	60	37	23	5.0%	▲
	Mr Rao Vallabhaneni	4273181	126	14	112	1.6%	▲
Tameside Hospital NHS Foundation Trust			79	45	34	0.0%	
	Mr Chowdery Pratap	4135041	48	32	16	0.0%	▲
University Hospital of South Manchester NHS Foundation Trust			374	153	221	2.1%	
	Professor Mohamed Baguneid	4034999	119	38	81	0.0%	▲
	Mr Jonathan Ghosh	4420196	37	5	32	0.0%	▲
	Professor Charles McCollum	1548909	106	61	45	2.8%	▲
	Mr Mark Welch	3019085	110	49	61	4.5%	▲
University Hospitals of Morecambe Bay NHS Foundation Trust			105	39	66	5.7%	
	Mr John Abraham	2822923	36	15	21	2.8%	▲
	Mr Moatasiem Bukhari	4462220	20	6	14	5.0%	▲
	Mr John Calvey	3353756	16	5	11	6.3%	▲
	Mr Mark Tomlinson	3454138	16	8	8	6.3%	▲
	Mr Paul Wilson	3138122	17	5	12	11.8%	▲
Warrington and Halton Hospitals NHS Foundation Trust			66	63	3	6.1%	
	Mr Andrew Paul Moody	2644466	29	29	0	10.3%	▲
	Mr Thomas Nicholas	4313199	12	11	1	8.3%	▲
	Mr Oladeji Olojugba	4082552	22	20	2	0.0%	▲
	Mr Nee Teo	4094159	*	*	*	*	▲
Wirral University Teaching Hospital NHS Foundation Trust			108	105	3	4.6%	
	Mr Stephen Blair	2458038	31	31	0	6.5%	▲
	Mr Colin Chan	4074485	57	38	19	5.3%	▲
	Mr Ramasubramanyan Chandrasekar	3608281	25	21	4	0.0%	▲
	Mr Leith Williams	4126430	27	15	12	0.0%	▲
Wrightington, Wigan and Leigh NHS Foundation Trust			62	35	27	6.5%	
	Mr Mohideen Jameel	3160565	26	14	12	7.7%	▲
	Mr John Mosley	1475409	36	21	15	5.6%	▲

South Central

Trust	Name	GMC	AAA	Open	EVAR	Mortality	Status
Buckinghamshire Healthcare NHS Trust			166	90	76	1.8%	
	Mr Patrick Lintott	3490912	60	29	31	1.7%	▲
	Mr Andrew Northeast	2658144	98	59	39	2.0%	▲
	Mr Romeshan Sunthareswaran	4652652	8	2	6	0.0%	▲
Heatherwood and Wexham Park Hospitals NHS Foundation Trust			72	18	54	1.4%	
	Mr Andrew Gordon	2504379	*	*	*	*	▲
	Mr Peter Rutter	2268943	76	14	62	2.6%	▲
Milton Keynes Hospital NHS Foundation Trust			54	32	22	1.9%	
	Mr Douglas McWhinnie	2329310	*	*	*	*	▲
	Miss Debbie Phillips	3310492	17	10	7	0.0%	▲
	Mr Simon Ray-Chaudhuri	3499344	41	23	18	2.4%	▲
Oxford University Hospitals NHS Trust			271	125	146	1.1%	
	Mr Christopher Darby	2729020	52	24	28	0.0%	▲
	Mr Andrew Gordon	2504379	*	*	*	*	▲
	Professor Alison Halliday	2377935	*	*	*	*	▲
	Mr Ashok Handa	3248672	49	24	25	0.0%	▲
	Miss Linda Hands	2370536	19	10	9	0.0%	▲
	Mr Jeremy Perkins	3196531	128	55	73	1.6%	▲
	Mr Peter Rutter	2268943	76	14	62	2.6%	▲
Portsmouth Hospitals NHS Trust			216	105	111	4.2%	
	Mr Paul Gibbs	3588507	27	27	0	3.7%	▲
	Mr Perbinder Grewal	4532992	*	*	*	*	▲
	Mr Andras Palffy	4393803	*	*	*	*	▲
	Mr Mark Pemberton	3179750	155	47	108	1.9%	▲
	Wing Commander Timothy Whitbread	2580508	10	10	0	0.0%	▲
University Hospital Southampton NHS Foundation Trust			377	201	176	0.8%	
	Mr Stephen Baxter	4248202	65	36	29	1.5%	▲
	Mr Gareth Morris	2373766	108	66	42	0.9%	▲
	Mr Kurian Mylankal	4627735	22	6	16	0.0%	▲
	Mr Ian Nordon	4624574	*	*	*	*	▲
	Mr Mike Phillips	3179626	104	50	54	1.0%	▲
	Professor Cliff Shearman	2497217	24	15	9	0.0%	▲
	Mr Nicholas Wilson	2726209	74	48	26	1.4%	▲

South East Coast

Trust	Name	GMC	AAA	Open	EVAR	Mortality	Status
Ashford and St Peter's Hospitals NHS Foundation Trust			142	26	116	0.0%	
	Mr Tahir Ali	4511423	33	0	33	0.0%	▲
	Mr Neil Browning	3148569	66	4	62	0.0%	▲
	Mr Marcus Cleanthis	4424004	14	5	9	0.0%	▲
	Mr Kieran Dawson	2809861	29	17	12	0.0%	▲
Brighton and Sussex University Hospitals NHS Trust			250	75	175	1.2%	
	Mr Michael Brooks	2719236	24	23	1	4.2%	▲
	Mr Matthew Button	4192648	31	17	14	0.0%	▲
	Mr Mario Caruana	5194168	37	15	22	2.7%	▲
	Mr Karim El Sakka	6072934	26	8	18	3.8%	▲
	Mr Hany Hafez	4157834	101	101	0	0.0%	▲
	Mr Peter Laws	3316050	13	7	6	0.0%	▲
	Mr Mahmoud Salman	5201046	*	*	*	*	▲
	Mr Syed Yusuf	3600238	116	4	112	0.0%	▲
Dartford and Gravesham NHS Trust			6	0	6	0.0%	
	Mr Andrew McIrvine	1745490	35	7	28	0.0%	▲
East Kent Hospitals University NHS Foundation Trust			343	77	266	1.2%	
	Mr Robert Insall	2623478	60	14	46	3.3%	▲
	Mr Amjad Khushal	4460352	*	*	*	*	▲
	Mr Thomas Rix	4258649	6	3	3	0.0%	▲
	Mr Jawaharlal Senaratne	5188769	66	14	52	0.0%	▲
	Mr Noel Wilson	2728988	210	45	165	1.0%	▲
East Sussex Healthcare NHS Trust			167	63	104	2.4%	
	Mr George Evans	2310376	84	36	48	2.4%	▲
	Mr Andrew Sandison	3189991	83	27	56	2.4%	▲
Frimley Park Hospital NHS Foundation Trust			309	125	184	1.0%	
	Mr Patrick Chong	4047425	63	25	38	1.6%	▲
	Mr David Gerrard	3353062	102	33	69	1.0%	▲
	Mr Peter Leopold	2511579	66	35	31	0.0%	▲
	Mr Magdy Moawad	4668576	20	6	14	5.0%	▲
	Mr Peter Rutter	2268943	76	14	62	2.6%	▲
	Ms Sabine Sonnenberg	3703966	20	10	10	0.0%	▲
	Mr Richard Wilson	4524203	18	5	13	0.0%	▲

Trust	Name	GMC	AAA	Open	EVAR	Mortality	Status
Medway NHS Foundation Trust			202	134	68	5.5%	
	Mr Brian Andrews	2597368	26	15	11	3.8%	▲
	Mr Samuel Andrews	3263664	37	37	0	8.1%	▲
	Miss Ginny Bowbrick	3407686	11	11	0	9.1%	▲
	Mr Christopher Butler	2294311	*	*	*	*	▲
	Mr Waleed Edrees	4483579	88	39	49	4.5%	▲
	Mr Mohamed Mohamed	3115187	35	27	8	5.7%	▲
Western Sussex Hospitals NHS Trust			130	130	0	1.5%	
	Mr David Allen	2424538	*	*	*	*	▲
	Mr David Beattie	3483523	22	22	0	9.1%	▲
	Mr Mario Caruana	5194168	37	15	22	2.7%	▲
	Mr Hany Hafez	4157834	101	101	0	0.0%	▲
	Mr Peter Laws	3316050	13	7	6	0.0%	▲

South West England

Trust	Name	GMC	AAA	Open	EVAR	Mortality	Status
Dorset County Hospital NHS Foundation Trust			73	73	0	6.9%	
	Mr Robin Windhaber	4540162	17	6	11	0.0%	▲
Gloucestershire Hospitals NHS Foundation Trust			303	180	123	1.3%	
	Mr Richard Bulbulia	4100148	12	12	0	8.3%	▲
	Mr David Cooper	4370789	80	18	62	0.0%	▲
	Mr Jonothan Earnshaw	2495686	58	35	23	1.7%	▲
	Mr Nick Matharu	4089573	6	1	5	0.0%	▲
	Mr Keith Poskitt	2386498	62	62	0	3.2%	▲
	Miss Caroline Rodd	3453656	44	11	33	0.0%	▲
	Mr Mark Whyman	2920742	41	41	0	0.0%	▲
North Bristol NHS Trust			195	84	111	3.6%	
	Mr Antony Baker	2383299	53	19	34	0.0%	▲
	Mr David Mitchell	2616656	43	20	23	2.3%	▲
	Mr Bill Neary	4186102	24	8	16	0.0%	▲
	Mr Andrew Weale	4327042	27	4	23	3.7%	▲
Northern Devon Healthcare NHS Trust			32	32	0	6.3%	
	Mr John V Taylor	4015491	29	26	3	0.0%	▲
Plymouth Hospitals NHS Trust			153	83	70	1.3%	
	Mr Simon Ashley	2824073	38	26	12	0.0%	▲
	Mr Jamie Barwell	3566525	30	18	12	0.0%	▲
	Mr Francis Dix	3687004	52	17	35	0.0%	▲
	Surg Cdr Chris Parry	4026217	31	20	11	6.5%	▲
	Mr Alasdair Walker	2344168	*	*	*	*	▲
Royal Bournemouth and Christchurch Hospitals NHS Foundation Trust			333	109	224	1.8%	
	Miss Sarah Hulin	4152640	46	18	28	0.0%	▲
	Mr Christopher Lee	4195964	19	1	18	0.0%	▲
	Mr Dynesh Rittoo	3556456	87	23	64	1.1%	▲
	Mr Lasantha Wijesinghe	3430817	100	49	51	0.0%	▲
	Mr Robin Windhaber	4540162	17	6	11	0.0%	▲
Royal Cornwall Hospitals NHS Trust			180	45	135	2.2%	
	Mr Harvey Chant	3679834	35	10	25	2.9%	▲
	Mr Jonathan Davies	2593577	40	2	38	2.5%	▲
	Mr Kenneth Woodburn	3102675	54	17	37	1.9%	▲

Trust	Name	GMC	AAA	Open	EVAR	Mortality	Status
Royal Devon and Exeter NHS Foundation Trust			169	63	106	3.0%	
	Mr David Birchley	4301949	14	11	3	14.3%	▲
	Professor Bruce Campbell	2211312	29	9	20	3.4%	▲
	Mr Andrew Robert Cowan	3259065	70	21	49	1.4%	▲
	Mr Ian Currie	3165704	88	16	72	1.1%	▲
	Mr John F Thompson	2579847	49	22	27	2.0%	▲
Royal United Hospital Bath NHS Trust			230	65	165	3.5%	
	Mr John Budd	2574220	70	19	51	2.9%	▲
	Mr Mahesh Pai	4740993	84	29	55	3.6%	▲
	Ms Rebecca Winterborn	4506146	*	*	*	*	▲
Salisbury NHS Foundation Trust			82	68	14	1.2%	
	Mr Saboor Ghauri	3460887	23	23	0	4.3%	▲
	Miss Sarah Hulin	4152640	46	18	28	0.0%	▲
	Mr Charles Ranaboldo	2939195	28	28	0	0.0%	▲
South Devon Healthcare NHS Foundation Trust			160	36	124	1.3%	
	Mr Ian Currie	3165704	88	16	72	1.1%	▲
	Mr Robert McCarthy	3582996	76	20	56	1.3%	▲
Taunton and Somerset NHS Foundation Trust			263	110	153	0.8%	
	Mr John Chester	2431862	39	27	12	2.6%	▲
	Mr Paul Evers	3263970	89	35	54	0.0%	▲
	Mr Ian Hunter	4637017	29	6	23	0.0%	▲
	Mr Andrew Stewart	4258852	90	36	54	0.0%	▲
	Mr John V Taylor	4015491	29	26	3	0.0%	▲
	Mr David Williams	3612945	9	2	7	11.1%	▲
University Hospitals Bristol NHS Foundation Trust			164	98	66	4.3%	
	Mr Marcus Brooks	4066590	92	40	52	4.3%	▲
	Mr Peter Lamont	1353493	34	29	5	5.9%	▲
	Mr Frank Smith	2942580	38	29	9	2.6%	▲

West Midlands

Trust	Name	GMC	AAA	Open	EVAR	Mortality	Status
Dudley Group of Hospitals NHS Foundation Trust			193	47	146	0.5%	
	Mr Chandra Abrew	3152106	53	2	51	0.0%	▲
	Miss Sandhya Shiralkar	4458298	31	8	23	0.0%	▲
	Mr Lionello Coen	2468633	48	48	0	4.2%	▲
	Mr Andrew Garnham	3278790	67	19	48	0.0%	▲
	Mr Simon Hobbs	4502609	52	17	35	3.8%	▲
	Mr Ajantha Jayatunga	3231180	40	9	31	0.0%	▲
	Mr Zahid Khan	4574356	*	*	*	*	▲
	Mr Rajankumar Patel	2942920	*	*	*	*	▲
	Mr Rajiv Pathak	4585309	62	7	55	0.0%	▲
	Mr Atiq-Ur Rehman	4255938	33	10	23	0.0%	▲
Heart of England NHS Foundation Trust			333	129	204	1.8%	
	Mr Donald Adam	3478105	172	42	130	1.2%	▲
	Professor Andrew Bradbury	3104189	6	5	1	0.0%	▲
	Mr Martin Claridge	4308678	16	1	15	6.3%	▲
	Mr Mark Gannon	2482662	30	13	17	0.0%	▲
	Mr Harmeet Khaira	3292145	29	23	6	6.9%	▲
	Mr Mark Scriven	3287992	36	21	15	2.8%	▲
	Mr Antonius Wilmlink	3452411	43	23	20	0.0%	▲
Royal Wolverhampton Hospitals NHS Trust			156	79	77	2.6%	
	Mr Lionello Coen	2468633	48	48	0	4.2%	▲
	Mr Teodor Gardecki	1613140	12	4	8	8.3%	▲
	Mr Andrew Garnham	3278790	67	19	48	0.0%	▲
	Mr Simon Hobbs	4502609	52	17	35	3.8%	▲
Sandwell and West Birmingham Hospitals NHS Trust			58	33	25	1.7%	
	Mr Philip Thomas Nicholl	3257513	39	26	13	0.0%	▲
	Mrs Rachel Sam	4293037	12	3	9	8.3%	▲
	Mr Stanley Silverman	2376927	13	7	6	0.0%	▲
Shrewsbury and Telford Hospital NHS Trust			247	125	122	3.6%	
	Mr Robert Duffield	1459791	59	59	0	3.4%	▲
	Mr Antony Fox	3261466	79	25	54	3.8%	▲
	Mr Andrew Houghton	2654827	78	43	35	0.0%	▲
	Ms Catherine Merriman	4645081	9	4	5	0.0%	▲
	Mr Timothy Sykes	3546851	53	24	29	5.7%	▲

Trust	Name	GMC	AAA	Open	EVAR	Mortality	Status
University Hospital of North Staffordshire NHS Trust			238	71	167	1.7%	
	Mr David Durrans	2296368	27	24	3	3.7%	▲
	Mr Omer Ehsan	6047484	24	9	15	4.2%	▲
	Mr Jack Fairhead	4648118	11	5	6	0.0%	▲
	Mr Brian Gwynn	2302151	36	20	16	2.8%	▲
	Mr Richard Morgan	2487777	37	8	29	0.0%	▲
	Mr Laszlo Papp	4586812	24	10	14	4.2%	▲
	Mr Arun Pherwani	4403676	71	19	52	0.0%	▲
	Miss Aideen Walsh	3113680	13	2	11	0.0%	▲
	Mr Julian Wong	3549263	32	11	21	3.1%	▲
University Hospitals Birmingham NHS Foundation Trust			159	62	97	3.8%	
	Mr Allen Edwards	2940942	16	4	12	6.3%	▲
	Mr Philip Thomas Nicholl	3257513	39	26	13	0.0%	▲
	Mrs Rachel Sam	4293037	12	3	9	8.3%	▲
	Mr Malcolm Simms	1417973	59	26	33	3.4%	▲
	Mr Simon Smith	1520251	20	12	8	0.0%	▲
	Mr Alok Tiwari	4311757	24	3	21	0.0%	▲
	Mr Rajiv Vohra	3158700	37	14	23	8.1%	▲
University Hospitals Coventry and Warwickshire NHS Trust			216	108	108	2.8%	
	Mr Peter Blacklay	2294854	14	14	0	7.1%	▲
	Mr Daniel Higman	3117237	58	38	20	0.0%	▲
	Professor Chris Imray	2837372	22	12	10	4.5%	▲
	Mr Asif Mahmood	4195768	72	10	62	1.4%	▲
	Miss Colette Marshall	3441729	30	17	13	3.3%	▲
	Mr Kasimu Zayyan	3644656	20	17	3	10.0%	▲
Walsall Healthcare NHS Trust			60	1	59	0.0%	
	Mr Chandra Abrew	3152106	53	2	51	0.0%	▲
	Mr Zahid Khan	4574356	*	*	*	*	▲
Worcestershire Acute Hospitals NHS Trust			363	220	143	2.2%	
	Mr Amarjit Atwal	3245497	101	32	69	3.0%	▲
	Mr Richard Downing	2232630	67	63	4	0.0%	▲
	Mr Eric Grocott	3402210	81	52	29	2.5%	▲
	Mr Nicholas Hickey	2855453	53	26	27	1.9%	▲
	Mr Isaac Nyamekye	3354128	61	47	14	3.3%	▲

Yorkshire and the Humber

Trust	Name	GMC	AAA	Open	EVAR	Mortality	Status
Bradford Teaching Hospitals NHS Foundation Trust			123	66	57	1.6%	
	Mr Kevin Mercer	3557990	39	23	16	0.0%	▲
	Mr Kevin Molloy	4399359	11	5	6	0.0%	▲
	Mr Nicholas Shaper	3201787	25	14	11	4.0%	▲
	Professor Peter Vowden	2304476	19	10	9	5.3%	▲
	Mr David Wilkinson	2940698	27	13	14	0.0%	▲
Calderdale and Huddersfield NHS Foundation Trust			118	65	53	2.5%	
	Mr Neeraj Bhasin	4630694	*	*	*	*	▲
	Mr Anver Mahomed	4000736	38	25	13	2.6%	▲
	Mr Duncan Parry	4037844	44	16	28	0.0%	▲
	Mr Narinder Sharma	2283571	11	7	4	0.0%	▲
Doncaster and Bassetlaw Hospitals NHS Foundation Trust			227	90	137	2.6%	
	Mr Duncan Drury	4729675	*	*	*	*	▲
	Mr Nandan Haldipur	5190165	20	9	11	5.0%	▲
	Mr Jan Macierewicz	4528740	65	17	48	1.5%	▲
	Mr Woolagasen Pillay	4600284	40	7	33	2.5%	▲
	Mr Sewa Singh	2833811	42	26	16	2.4%	▲
	Mr Peter Tan	3405756	24	12	12	0.0%	▲
Hull and East Yorkshire Hospitals NHS Trust			399	255	144	3.8%	
	Mr Bankole Akomolafe	4381653	71	44	27	5.6%	▲
	Professor Ian Chetter	3480221	48	33	15	0.0%	▲
	Mr Brian Johnson	2506845	83	41	42	8.4%	▲
	Mr Rakesh Kapur	5204956	*	*	*	*	▲
	Mr Paul Renwick	2828527	65	26	39	0.0%	▲
Leeds Teaching Hospitals NHS Trust			156	66	90	3.2%	
	Mr David Berridge	2716154	37	21	16	5.4%	▲
	Professor Shervanthi Homer-Vanniasinkam	3609732	*	*	*	*	▲
	Mr Andrew Mavor	2633619	*	*	*	*	▲
	Mr David Russell	4441658	11	5	6	0.0%	▲
	Professor Julian Scott	2698386	34	9	25	0.0%	▲
	Mr Max Troxler	4317320	18	7	11	0.0%	▲
Mid Yorkshire Hospitals NHS Trust			107	50	57	1.9%	
	Mr Sathish Bhasker	4469155	26	22	4	0.0%	▲
	Mr Paul Curley	3222445	23	17	6	0.0%	▲
	Mr Jon Hossain	3265611	22	8	14	9.1%	▲
	Mr Craig Irvine	3274088	34	3	31	0.0%	▲

Trust	Name	GMC	AAA	Open	EVAR	Mortality	Status
Sheffield Teaching Hospitals NHS Foundation Trust			212	166	46	4.3%	
	Professor Jonathan Beard	2499965	21	16	5	9.5%	▲
	Mr Ahmed Nassef	4454232	13	13	0	0.0%	▲
	Mr Shah Nawaz	3433470	37	37	0	0.0%	▲
	Mr Philip Chan	2738961	11	10	1	18.2%	▲
	Mr Peter Dominic Dodd	3353206	25	22	3	0.0%	▲
	Mr Ed Mulkern	3555259	24	24	0	16.7%	▲
	Mr Raj Nair	4273497	27	27	0	3.7%	▲
York Teaching Hospital NHS Foundation Trust			234	119	115	2.6%	
	Mr Marco Baroni	4413446	55	24	31	3.6%	▲
	Mr Stephen Brooks	2723976	14	14	0	7.1%	▲
	Mr Stephen Cavanagh	3540415	76	23	53	2.6%	▲
	Mr Alistair McCleary	3337732	72	48	24	1.4%	▲
	Mr Andrew Thompson	4528960	17	10	7	0.0%	▲

Northern Ireland

Trust	Name	GMC	AAA	Open	EVAR	Mortality	Status
Belfast Health and Social Care Trust			585	263	322	2.1%	
	Mr Robin Baker	4034810	31	21	10	3.2%	▲
	Mr Paul Blair	2587907	100	55	45	2.0%	▲
	Mr Raymond Hannon	2702627	40	19	21	2.5%	▲
	Mr Denis Harkin	3688751	113	42	71	1.8%	▲
	Mr Louis Lau	3486791	113	39	74	1.8%	▲
	Mr Bernard Lee	1386662	41	16	25	0.0%	▲
	Mr Andrew McKinley	3054710	102	53	49	3.9%	▲
	Miss Julie Reid	4443265	48	20	28	0.0%	▲

Scotland

Trust	Name	GMC	AAA	Open	EVAR	Mortality	Status
NHS Ayrshire & Arran			*	*	*	*	
	Mr Steven Boom	2923398	*	*	*	*	▲
NHS Dumfries and Galloway			35	35	0	5.7%	
	Mr Iain Muir	2332334	25	24	1	0.0%	▲
	Mr Joseph Sathianathan	4635455	14	8	6	7.1%	▲
NHS Fife			9	7	2	0.0%	
	Mr Alan Milne	3485666	20	18	2	0.0%	▲
NHS Forth Valley			50	50	0	2.0%	
	Mr Richard Holdsworth	2709394	38	38	0	2.6%	▲
	Ms Karen Murphy	4305015	*	*	*	*	▲
NHS Grampian			177	38	139	1.7%	
	Mr Paul Bachoo	3264122	105	12	93	1.0%	▲
	Mr Euan Munro	3179152	30	10	20	3.3%	▲
	Mr Michael Sharp	3466182	25	12	13	4.0%	▲
NHS Greater Glasgow and Clyde			79	31	48	0.0%	
	Mr Kevin Daly	4310505	13	4	9	0.0%	▲
	Mr David Kingsmore	3585009	*	*	*	*	▲
	Mr Douglas Orr	3442706	55	17	38	0.0%	▲
	Mr Paul Teenan	2555203	*	*	*	*	▲
NHS Highland			73	45	28	2.7%	
	Mr John Duncan	2330875	30	11	19	0.0%	▲
	Mr Bernhard Wolf	3619124	43	34	9	4.7%	▲
NHS Lanarkshire			59	1	58	0.0%	
	<i>No consenting surgeon has submitted data</i>						
NHS Lothian			137	98	39	2.2%	
	Mr Paul John Burns	4229357	24	13	11	8.3%	▲
	Mr Roderick Chalmers	3171587	35	27	8	0.0%	▲
	Professor Dave Lewis	3489660	9	4	5	0.0%	▲
	Mr Zahid Raza	3495924	23	19	4	4.3%	▲
	Mr Andrew Tambyraja	4539418	*	*	*	*	▲
NHS Tayside			124	51	73	0.8%	
	Mr Murray Flett	3322194	32	4	28	0.0%	▲
	Mr Gareth Griffiths	2805702	26	14	12	0.0%	▲
	Miss Alison Howd	2484664	20	5	15	0.0%	▲
	Mr Alan Milne	3485666	20	18	2	0.0%	▲
	Mr Stuart Suttie	4691934	9	5	4	0.0%	▲

Wales

Trust	Name	GMC	AAA	Open	EVAR	Mortality	Status
Abertawe Bro Morgannwg University Health Board			217	122	95	1.8%	
	Mr Chris Davies	4639686	66	5	61	0.0%	▲
	Mr Louis Fligelstone	3141799	21	9	12	0.0%	▲
	Mr Richard Hedges	2539629	61	61	0	6.6%	▲
	Mr Angus Ruddle	3405103	19	19	0	0.0%	▲
	Mr Justin Woolgar	3494538	28	27	1	0.0%	▲
Aneurin Bevan Health Board			110	24	86	0.9%	
	Mr Peter Lewis	2501008	9	5	4	0.0%	▲
	Mr Ahmed Shandall	2255118	*	*	*	*	▲
Betsi Cadwaladr University Health Board			278	178	100	2.9%	
	Mr Tony daSilva	3144297	59	20	39	1.7%	▲
	Mr Robert Duffield	1459791	59	59	0	3.4%	▲
	Mr Otto Klimach	2236775	77	57	20	2.6%	▲
	Mr Dean Williams	3499643	48	27	21	0.0%	▲
Cardiff and Vale University Health Board			113	32	81	4.4%	
	Miss Susan Hill	3067057	15	9	6	0.0%	▲
Cwm Taf University Health Board			94	60	34	5.3%	
	Mr Michael Rocker	4118167	57	28	29	3.5%	▲
Hywel Dda Health Board			21	1	20	4.8%	
	<i>No consenting surgeons</i>						

Individual surgeon outcomes for carotid endarterectomy

The following pages contain the surgical outcomes for consultant surgeons undertaking carotid endarterectomy. The tables organise the surgeons under the NHS trust at which they work. NHS trusts are organised by geographical region. The reported rate of stroke or death within 30 days by each surgeon is their overall rate, and reflects their individual practice. It is not the risk-adjusted rate and should NOT be used to make comparisons across surgeons.

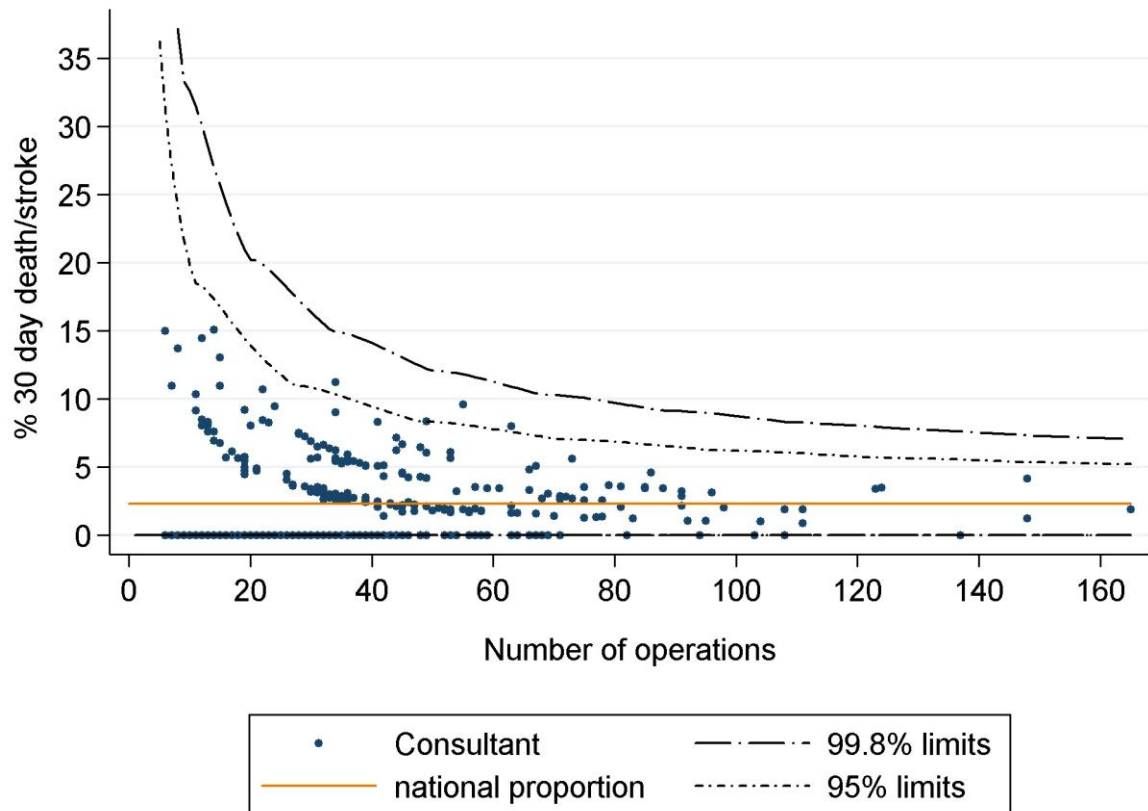
The status column indicates whether the surgeon had outcomes in the expected range given their level of activity (▲) or was found to be an outlier (X) in our assessment of their **risk-adjusted** outcomes. We did not find that any surgeon had outcomes that differed from the national average by more than would be expected from random fluctuations alone. The comparative, risk-adjusted mortality rates of surgeons are shown in the funnel plot in Figure 2.

Some surgeons work in more than one NHS trust. The figures for surgeons were produced from all patients that they operated on, and cover all hospitals in which they have worked. The figures for NHS trusts were produced from only those patients that were operated on in their hospitals. Consequently, the total number of patients shown as being treated in an NHS trust may not be the same as the total number of operations performed by surgeons working in that NHS trust. NHS trust figures may also be larger than the total reported for individual surgeons because retired surgeons have not been included in this report.

Key to table column headings

Trust	Name of the NHS trust
Name	Name of consultant surgeon
GMC	GMC number of consultant surgeon
CEA	Total number of CEA procedures performed
Total CEA with outcomes	Number of CEA procedures performed on which outcome data were provided
% Stroke and/or death	The proportion of patients who had a stroke or died within 30 days of surgery
Status	Whether or not the surgeon mortality was within the expected range
Median delay (IQR)	Median delay in days from when patient first experienced symptoms and the date of surgery

Figure 2: Funnel plot of risk-adjusted rate of stroke/death within 30 days of a carotid endarterectomy, with surgeon figures shown in comparison to the national average rate of 2.4%



East Midlands

Trust	Name	GMC	CEAs	Total CEAs with outcomes	% Stroke and/or Death	Status	Median (IQR)
Derby Hospitals NHS Foundation Trust			100	100	1.0%		9(5, 14)
	Mr Kumar Abayasekara	4563468	20	20	0.0%	▲	
	Mr Amir El-Tahir	4276304	28	28	0.0%	▲	
	Mr Muthu Lingam	3204467	7	7	14.3%	▲	
	Mr John Quarmby	3190951	15	15	0.0%	▲	
	Mr Timothy Rowlands	4027531	26	26	0.0%	▲	
Northampton General Hospital NHS Trust			127	122	3.3%		10(4, 21)
	Mr Vijay Bahal	3378858	37	37	5.4%	▲	
	Mr Avtar Brar	3019999	27	26	3.8%	▲	
	Mr Robert Hicks	3337615	46	46	0.0%	▲	
	Mr Sreevalsan Kappadath	4761462	26	21	0.0%	▲	
	Mr Gabor Libertiny	4267092	33	30	6.7%	▲	
	Mr David Ratliff	2381565	29	29	3.4%	▲	
Nottingham University Hospitals NHS Trust			258	255	3.5%		7(4, 10)
	Mr Bruce Braithwaite	3389911	8	8	0.0%	▲	
	Mrs Sadhana Chandrasekar	4075565	39	39	2.6%	▲	
	Miss Sumaira Khan	4465560	*	*	*	▲	
	Mr Shane MacSweeney	2925077	79	79	3.8%	▲	
	Mr Akin Oluwole	4345752	73	73	5.5%	▲	
	Mr William Tennant	2601812	59	56	1.8%	▲	
Sherwood Forest Hospitals NHS Foundation Trust			112	106	2.8%		11(7, 19)
	Mr Irfan Akhtar	5089742	31	31	3.2%	▲	
	Mr Rakesh Kapur	5204956	13	12	0.0%	▲	
	Mr Khalid Makhdoomi	4281038	71	71	2.8%	▲	
	Mr Mahmoud Salman	5201046	26	26	0.0%	▲	
United Lincolnshire Hospitals NHS Trust			68	59	1.7%		16(6, 35)
	Mr Nityanand Arya	4602602	23	20	0.0%	▲	
	Mr Peter Lee Chong	4056012	17	12	0.0%	▲	
	Mr Paul Dunning	3141115	9	8	0.0%	▲	
	Mr Jayarama Mohan	4602578	19	19	5.3%	▲	
University Hospitals of Leicester NHS Trust			367	367	1.4%		9(6, 17)
	Mr Matthew Bown	4435394	14	14	0.0%	▲	
	Professor Nick London	2627946	*	*	*	▲	
	Mr Mark McCarthy	3441365	63	63	1.6%	▲	
	Mr Kevin Molloy	4399359	21	21	4.8%	▲	
	Mr Akhtar Nasim	3486272	71	71	0.0%	▲	
	Professor Ross Naylor	2552073	165	165	1.8%	▲	
	Mr Robert Sayers	2854672	14	14	0.0%	▲	

East of England

Trust	Name	GMC	CEAs	Total CEAs with outcomes	% Stroke and/or Death	Status	Median (IQR)
Basildon and Thurrock University Hospital NHS Foundation Trust			62	59	1.7%		13(9, 15)
	Mr Vijay Gadhvi	4714862	38	38	0.0%	▲	
	Mr Taleb Jeddy	3473959	19	19	5.3%	▲	
	Mr Jay Menon	4258216	34	31	0.0%	▲	
Bedford Hospital NHS Trust			128	126	1.6%		23(11, 57)
	Mr Arindam Chaudhuri	4644592	55	53	1.9%	▲	
	Mr Tapan Mehta	4781923	14	14	7.1%	▲	
	Mr Nadim Noor	4004778	42	42	0.0%	▲	
	Mr Paul Tisi	3279612	16	16	0.0%	▲	
Cambridge University Hospitals NHS Foundation Trust			289	283	1.1%		22(14, 46)
	Mr Nile Allaf	4699846	24	24	0.0%	▲	
	Mr Jonathan Boyle	3561702	41	41	0.0%	▲	
	Mr Patrick Coughlin	4424671	33	33	0.0%	▲	
	Mr Manj Gohel	4639693	10	10	0.0%	▲	
	Mr Paul Hayes	4003980	52	52	1.9%	▲	
	Mr Peter Kirkpatrick	2935940	79	77	1.3%	▲	
	Mr Kevin Varty	3089156	47	43	2.3%	▲	
Colchester Hospital University NHS Foundation Trust			125	121	0.8%		19(8, 61)
	Mr Abdusalam Abu-Own	3380400	23	20	0.0%	▲	
	Mr Chris Backhouse	2295116	9	8	0.0%	▲	
	Mr Sohail Choksy	3676271	76	75	1.3%	▲	
	Mr Adam Howard	4100753	34	32	0.0%	▲	
	Mr Isam Osman	4241913	60	58	0.0%	▲	
	Mr Fahed Youssef	4681645	*	*	*	▲	
East and North Hertfordshire NHS Trust			89	88	0.0%		9(5, 29)
	Mr Tim Beresford	4097987	*	*	*	▲	
	Mr S M G Kibria	4189143	19	19	5.3%	▲	
	Mr Matt Metcalfe	4522847	10	10	0.0%	▲	
	Mr Sadasivam Selvakumar	3536603	59	59	0.0%	▲	
Ipswich Hospital NHS Trust			80	74	0.0%		35(21, 63)
	Mr Abdusalam Abu-Own	3380400	23	20	0.0%	▲	
	Mr Isam Osman	4241913	60	58	0.0%	▲	
	Mr Fahed Youssef	4681645	*	*	*	▲	
Mid Essex Hospital Services NHS Trust			100	100	4.0%		18(10, 25)
	Mr Tom Browne	3207116	38	38	5.3%	▲	
	Mr Ioannis Panayiotopoulos	3624009	46	46	4.3%	▲	
	Mr Ioannis Prionidis	4407553	16	16	0.0%	▲	

Trust	Name	GMC	CEAs	Total CEAs with outcomes	% Stroke and/or Death	Status	Median (IQR)
Norfolk and Norwich University Hospitals NHS Foundation Trust			282	278	2.2%		11(7, 17)
	Mr Matthew Armon	3407208	52	52	1.9%	▲	
	Mr Rob Brightwell	4717267	*	*	*	▲	
	Miss Felicity Meyer	3325946	51	50	2.0%	▲	
	Mr Darren Morrow	4022464	71	71	2.8%	▲	
	Miss Yvonne Wilson	2921341	36	36	2.8%	▲	
Peterborough and Stamford Hospitals NHS Foundation Trust			38	37	2.7%		16(4, 29)
	Mr Brandon Krijgsman	3054071	19	18	0.0%	▲	
	Mr John Kuriakose	4464129	*	*	*	▲	
	Mr Peter Taylor	3190243	13	13	7.7%	▲	
	Mr Robert Toby Walker	2213321	*	*	*	▲	
Princess Alexandra Hospital NHS Trust			88	88	3.4%		15(6, 17)
	Mr Ahmed Abidia	4248587	45	45	4.4%	▲	
	Mr Jonathan Refson	3285581	43	43	2.3%	▲	
Southend University Hospital NHS Foundation Trust			154	154	1.3%		7(5, 10)
	Mr James Brown	4332525	45	45	2.2%	▲	
	Mr Matthew Jakeways	3141641	111	111	0.9%	▲	
West Hertfordshire Hospitals NHS Trust			107	102	2.9%		12(9, 21)
	Mr Tahir Bhatti	3538258	16	11	0.0%	▲	
	Mr Mustapha Halawa	6077728	6	6	0.0%	▲	
	Mr Sanjeev Sarin	2939968	85	85	3.5%	▲	

London

Trust	Name	GMC	CEAs	Total CEAs with outcomes	% Stroke and/or Death	Status	Median (IQR)
Barking, Havering and Redbridge University Hospitals NHS Trust			109	105	1.9%		14(11, 20)
	Mr Timothy Cheadle	2734998	42	41	2.4%	▲	
	Mr Julian Coker	3628876	*	*	*	▲	
	Mr Sabu Jacob	4550475	*	*	*	▲	
	Mr Gabriel Sayer	4041065	34	33	3.0%	▲	
	Mr Shukri Shami	2406130	*	*	*	▲	
	Mr Raghu Vindlacheruvu	4070618	24	23	0.0%	▲	
Barnet and Chase Farm Hospitals NHS Trust			65	60	3.3%		22(15, 32)
	Mr Hamish Hamilton	2886321	36	31	0.0%	▲	
	Mr Nicholas Law	2462149	17	16	6.3%	▲	
Barts Health NHS Trust			140	139	2.9%		5(3, 12)
	Professor Karim Brohi	3563656	10	10	0.0%	▲	
	Mr James Crinnion	3259670	7	7	0.0%	▲	
	Mr Harpaul Flora	4214300	49	49	8.2%	▲	
	Mr Vijay Gadhvi	4714862	38	38	0.0%	▲	
	Mr Martin Griffiths	3591394	*	*	*	▲	
	Mr Constantinos Kyriakides	3275436	13	12	0.0%	▲	
	Mr Wayne Sapsford	3556669	13	13	0.0%	▲	
	Mr Nigel Tai	3549421	11	11	0.0%	▲	
	Mr Michael Walsh	2921516	10	10	0.0%	▲	
Guy's and St Thomas' Hospital NHS Foundation Trust			63	60	10.0%		14(9, 15)
	Miss Rachel Bell	4115779	14	14	14.3%	▲	
	Mr Tom Carrell	3564891	*	*	*	▲	
	Mr Bijan Modarai	4539762	*	*	*	▲	
	Professor Peter Taylor	2488699	36	34	11.8%	▲	
	Mr Mark Tyrrell	3156571	71	68	2.9%	▲	
	Mr Hany Zayed	6133112	7	6	0.0%	▲	

Trust	Name	GMC	CEAs	Total CEAs with outcomes	% Stroke and/or Death	Status	Median (IQR)
Imperial College Healthcare NHS Trust			305	300	4.7%		9(5, 23)
	Mr Colin Bicknell	4319889	11	11	0.0%	▲	
	Mr Maziar Mireskandari	3615546	*	*	*	▲	
	Mr David Nott	2710550	*	*	*	▲	
	Professor Nigel Standfield	2225131	*	*	*	▲	
	Mr John Wolfe	1495850	10	8	0.0%	▲	
	Professor Nicholas Cheshire	3665880	*	*	*	▲	
	Professor Saroj Das	3384349	35	35	2.9%	▲	
	Professor Alun Davies	2952147	149	148	4.1%	▲	
	Mr Ian Franklin	3461118	88	88	3.4%	▲	
	Mr George Geroulakos	2902324	14	8	0.0%	▲	
	Mr Richard Gibbs	3469532	15	15	6.7%	▲	
	Mr Michael Jenkins	3342442	11	9	0.0%	▲	
	Mr Morgan McMonagle	6049181	*	*	*	▲	
King's College Hospital NHS Foundation Trust			274	271	0.7%		9(5, 20)
	Mr Michael Dialynas	4123509	6	6	0.0%	▲	
	Mr Andrew McIrvine	1745490	29	29	0.0%	▲	
	Mr Hisham Rashid	4274773	81	81	2.5%	▲	
	Mr Mark Tyrrell	3156571	71	68	2.9%	▲	
	Mr Domenico Valenti	4271598	137	137	0.0%	▲	
North West London Hospitals NHS Trust			84	83	7.2%		8(6, 67)
	Professor Saroj Das	3384349	35	35	2.9%	▲	
	Mr George Geroulakos	2902324	14	8	0.0%	▲	
	Mr David Greenstein	3330591	13	12	16.7%	▲	
	Mr Syed Tahir Hussain	3242669	24	24	8.3%	▲	
	Miss Sophie Renton	2831149	34	34	5.9%	▲	
Royal Free London NHS Foundation Trust			42	37	0.0%		9(5, 13)
	Mr Daryll Baker	3262182	16	15	0.0%	▲	
	Miss Meryl Davis	3315578	6	6	0.0%	▲	
	Mr Hamish Hamilton	2886321	36	31	0.0%	▲	
	Miss Fiona Myint	3243543	*	*	*	▲	
	Miss Janice Tsui	4368364	*	*	*	▲	
St George's Healthcare NHS Trust			191	190	1.1%		7(5, 12)
	Mr Stephen Black	4765765	31	31	6.5%	▲	
	Mr Josh Derodra	2403124	*	*	*	▲	
	Mr Robert Hinchliffe	4311609	21	21	0.0%	▲	
	Mr Keith Jones	3585171	11	11	0.0%	▲	
	Mr Ian Loftus	3675531	67	66	0.0%	▲	
	Mr Tom Loosemore	2650517	47	47	2.1%	▲	
	Mr Sudip Ray	3132418	18	18	0.0%	▲	
	Professor Matt Thompson	3189788	12	12	0.0%	▲	

Trust	Name	GMC	CEAs	Total CEAs with outcomes	% Stroke and/or Death	Status	Median (IQR)
University College London Hospitals NHS Foundation Trust			134	134	3.7%		6(4, 9)
	Mr Obiekezie Agu	4387161	21	21	0.0%	▲	
	Mr Christopher Bishop	2400561	23	23	8.7%	▲	
	Mr Toby Richards	4192466	81	81	3.7%	▲	

North East

Trust	Name	GMC	CEAs	Total CEAs with outcomes	% Stroke and/or Death	Status	Median (IQR)
City Hospitals Sunderland NHS Foundation Trust			135	135	3.7%		15(11, 40)
	Mr Ben Banerjee	3566312	17	17	0.0%	▲	
	Mr Andrew Brown	3259515	30	30	0.0%	▲	
	Mr Paul Dunlop	3295863	41	41	7.3%	▲	
	Mr Klaus Overbeck	3623273	13	13	7.7%	▲	
	Mr Shanmugam Vetrivel	4039729	34	34	2.9%	▲	
County Durham and Darlington NHS Foundation Trust			154	141	0.0%		13(9, 25)
	Mr Nigel Corner	2723103	14	14	0.0%	▲	
	Mr Philip Davey	4541132	52	52	0.0%	▲	
	Mr Ian Hawthorn	2659626	27	27	0.0%	▲	
	Mr Gareth Tervit	3551121	61	48	0.0%	▲	
Gateshead Health NHS Foundation Trust			81	81	3.7%		14(11, 23)
	Mr Hamdy Ashour	3535750	25	25	0.0%	▲	
	Mr Vish Bhattacharya	4004596	27	27	0.0%	▲	
	Mr Ahmed Mudawi	3535224	29	29	6.9%	▲	
Newcastle upon Tyne Hospitals NHS Foundation Trust			229	229	1.7%		16(10, 32)
	Mr Michael Clarke	3334090	45	45	2.2%	▲	
	Mr David Lambert	2377636	43	43	0.0%	▲	
	Mr Tim Lees	2914529	30	30	3.3%	▲	
	Professor Gerard Stansby	2781392	49	49	4.1%	▲	
	Ms Lucy Wales	4029935	31	31	0.0%	▲	
	Mr Michael Wyatt	2579782	16	16	0.0%	▲	
South Tees Hospitals NHS Foundation Trust			192	189	0.5%		10(8, 17)
	Miss Monica Hansrani	4126674	38	38	0.0%	▲	
	Mr Reza Mofidi	4787039	64	64	1.6%	▲	
	Mr Kurian Mylankal	4627735	26	23	0.0%	▲	
	Mr Ian Nichol	3617603	9	9	0.0%	▲	
	Mr Andrew Parry	3240021	67	67	0.0%	▲	

North West

Trust	Name	GMC	CEAs	Total CEAs with outcomes	% Stroke and/or Death	Status	Median (IQR)
Blackpool Teaching Hospitals NHS Foundation Trust			*	*	*		*
	Mr Hisham Osman	4558033	*	*	*	▲	
Bolton NHS Foundation Trust			109	105	0.0%		15(9, 71)
	Mr Graeme H Ferguson	2553043	45	41	0.0%	▲	
	Mr Madu Onwudike	4114390	64	64	0.0%	▲	
Central Manchester University Hospitals NHS Foundation Trust			201	201	1.0%		21(9, 78)
	Mr David Murray	4209999	64	64	0.0%	▲	
	Mr Ferdinand Serracino-Inglott	5206200	45	45	2.2%	▲	
	Mr Vince Smyth	3138782	92	92	1.1%	▲	
Countess of Chester Hospital NHS Foundation Trust			142	142	0.0%		10(6, 33)
	Mr Sameh Dimitri	4344445	82	82	0.0%	▲	
	Mr Paul Edwards	2394826	12	12	0.0%	▲	
	Mr Maher Hamish	5170383	48	48	0.0%	▲	
East Lancashire Hospitals NHS Trust			221	220	1.4%		20(9, 34)
	Mr Haytham Al-Khaffaf	3151930	103	103	0.0%	▲	
	Mr Simon Hardy	2573690	23	23	0.0%	▲	
	Mr Asad Rahi	4267164	46	46	0.0%	▲	
	Mr Robert Salaman	3280809	49	48	6.3%	▲	
Lancashire Teaching Hospitals NHS Foundation Trust			147	146	3.4%		22(14, 40)
	Miss Susan Drinkwater	4129361	22	22	9.1%	▲	
	Mr Anselm Egun	4148917	58	58	1.7%	▲	
	Mr George Thomson	2330174	67	66	3.0%	▲	
North Cumbria University Hospitals NHS Trust			68	67	0.0%		11(7, 44)
	Mr Thomas Joseph	5198422	26	26	0.0%	▲	
	Mr Theophilus Ojimba	4281502	41	41	0.0%	▲	
	Mr Adam Sowinski	4216326	*	*	*	▲	
Pennine Acute Hospitals NHS Trust			357	357	1.1%		14(6, 56)
	Mr Riza Ibrahim	4308472	56	56	0.0%	▲	
	Mr Damian Kelleher	4187787	*	*	*	▲	
	Mr Taohid Oshodi	3643174	94	94	0.0%	▲	
	Mr Graham Riding	3560031	43	43	0.0%	▲	
	Mr Raashid Shahbazi	6090793	*	*	*	▲	

Trust	Name	GMC	CEAs	Total CEAs with outcomes	% Stroke and/or Death	Status	Median (IQR)
Royal Liverpool and Broadgreen University Hospitals NHS Trust			141	140	2.9%		10(7, 15)
	Mr John Brennan	3073586	18	18	5.6%	▲	
	Mr Robert Fisher	4035048	41	41	4.9%	▲	
	Mr David Jones	2439853	68	67	6.0%	▲	
	Mr Jos Joseph	3393486	*	*	*	▲	
	Mr Jagjeeth Naik	4015305	51	51	2.0%	▲	
	Mr Jonathan Smout	4201290	17	17	5.9%	▲	
	Mr Francesco Torella	4052070	87	86	4.7%	▲	
	Mr Rao Vallabhaneni	4273181	25	24	0.0%	▲	
Tameside Hospital NHS Foundation Trust			66	63	0.0%		18(11, 20)
	Mr Chowdery Pratap	4135041	19	18	0.0%	▲	
University Hospital of South Manchester NHS Foundation Trust			309	305	1.6%		13(7, 29)
	Professor Mohamed Baguneid	4034999	112	108	0.0%	▲	
	Mr Jonathan Ghosh	4420196	37	37	2.7%	▲	
	Professor Charles McCollum	1548909	69	69	2.9%	▲	
	Mr Mark Welch	3019085	91	91	2.2%	▲	
University Hospitals of Morecambe Bay NHS Foundation Trust			99	99	1.0%		7(3, 82)
	Mr John Abraham	2822923	24	24	0.0%	▲	
	Mr Moatasiem Bukhari	4462220	12	12	8.3%	▲	
	Mr John Calvey	3353756	28	28	0.0%	▲	
	Mr Mark Tomlinson	3454138	22	22	0.0%	▲	
	Mr Paul Wilson	3138122	13	13	0.0%	▲	
Warrington and Halton Hospitals NHS Foundation Trust			135	134	1.5%		15(8, 35)
	Mr Andrew Paul Moody	2644466	44	43	2.3%	▲	
	Mr Thomas Nicholas	4313199	47	47	2.1%	▲	
	Mr Oladeji Olojugba	4082552	24	24	0.0%	▲	
	Mr Nee Teo	4094159	20	20	0.0%	▲	
Wirral University Teaching Hospital NHS Foundation Trust			168	160	2.5%		19(7, 36)
	Mr Stephen Blair	2458038	60	57	0.0%	▲	
	Mr Colin Chan	4074485	36	35	5.7%	▲	
	Mr Ramasubramanyan Chandrasekar	3608281	35	35	0.0%	▲	
	Mr Leith Williams	4126430	32	31	6.5%	▲	
Wrightington, Wigan And Leigh NHS Foundation Trust			112	112	3.6%		92(53,140)
	Mr Mohideen Jameel	3160565	10	10	0.0%	▲	
	Mr John Mosley	1475409	54	54	3.7%	▲	
	Mr Ramanathan Shivalingam	4287357	48	48	4.2%	▲	

South Central

Trust	Name	GMC	CEAs	Total CEAs with outcomes	% Stroke and/or Death	Status	Median (IQR)
Buckinghamshire Healthcare NHS Trust			244	239	2.1%		11(8, 16)
	Mr Patrick Lintott	3490912	93	91	3.3%	▲	
	Mr Andrew Northeast	2658144	151	148	1.4%	▲	
Milton Keynes Hospital NHS Foundation Trust			14	14	7.1%		*
	Miss Debbie Phillips	3310492	8	8	12.5%	▲	
	Mr Simon Ray-Chaudhuri	3499344	6	6	0.0%	▲	
Oxford University Hospitals NHS Trust			244	234	3.0%		19(8, 41)
	Mr Christopher Darby	2729020	35	35	2.9%	▲	
	Professor Alison Halliday	2377935	35	35	2.9%	▲	
	Mr Ashok Handa	3248672	43	39	0.0%	▲	
	Miss Linda Hands	2370536	47	44	2.3%	▲	
	Mr Jeremy Perkins	3196531	78	75	2.7%	▲	
Portsmouth Hospitals NHS Trust			215	215	1.9%		22(12, 65)
	Mr Andras Palffy	4393803	18	18	0.0%	▲	
	Mr Simon Payne	3115950	98	98	2.0%	▲	
	Mr Mark Pemberton	3179750	78	78	2.6%	▲	
	Wing Commander Timothy Whitbread	2580508	7	7	0.0%	▲	
University Hospital Southampton NHS Foundation Trust			299	299	1.7%		16(11, 26)
	Mr Stephen Baxter	4248202	31	31	0.0%	▲	
	Mr Gareth Morris	2373766	95	95	1.1%	▲	
	Mr Kurian Mylankal	4627735	26	23	0.0%	▲	
	Mr Mike Phillips	3179626	59	59	0.0%	▲	
	Professor Cliff Shearman	2497217	22	22	9.1%	▲	
	Mr Nicholas Wilson	2726209	73	73	2.7%	▲	

South East Coast

Trust	Name	GMC	CEAs	Total CEAs with outcomes	% Stroke and/or Death	Status	Median (IQR)
Ashford and St Peter's Hospitals NHS Foundation Trust			132	117	1.7%		11(5, 37)
	Mr Tahir Ali	4511423	40	39	0.0%	▲	
	Mr Neil Browning	3148569	58	53	1.9%	▲	
	Mr Marcus Cleanthis	4424004	13	13	7.7%	▲	
	Mr Kieran Dawson	2809861	23	14	0.0%	▲	
Brighton and Sussex University Hospitals NHS Trust			120	120	1.7%		9(7, 14)
	Mr Michael Brooks	2719236	25	25	0.0%	▲	
	Mr Matthew Button	4192648	18	18	0.0%	▲	
	Mr Mario Caruana	5194168	27	27	0.0%	▲	
	Mr Karim El Sakka	6072934	34	34	5.9%	▲	
	Mr Peter Laws	3316050	13	13	0.0%	▲	
	Mr Mahmoud Salman	5201046	26	26	0.0%	▲	
	Mr Syed Yusuf	3600238	*	*	*	▲	
Dartford and Gravesham NHS Trust			17	17	0.0%		25(13, 29)
	Mr Andrew McIrvine	1745490	29	29	0.0%	▲	
East Kent Hospitals University NHS Foundation Trust			209	208	2.4%		6(4, 9)
	Mr Robert Insall	2623478	70	70	1.4%	▲	
	Mr Thomas Rix	4258649	30	30	3.3%	▲	
	Mr Jawaharlal Senaratne	5188769	109	108	1.9%	▲	
East Sussex Healthcare NHS Trust			23	19	10.5%		27(24, 44)
	Mr George Evans	2310376	19	15	13.3%	▲	
	Mr Andrew Sandison	3189991	*	*	*	▲	
Frimley Park Hospital NHS Foundation Trust			200	199	2.5%		9(5, 20)
	Mr Patrick Chong	4047425	53	53	1.9%	▲	
	Mr David Gerrard	3353062	59	59	3.4%	▲	
	Mr Peter Leopold	2511579	39	39	5.1%	▲	
	Mr Magdy Moawad	4668576	18	17	0.0%	▲	
	Mr Peter Rutter	2268943	*	*	*	▲	
	Ms Sabine Sonnenberg	3703966	30	30	0.0%	▲	
	Mr Richard Wilson	4524203	19	19	0.0%	▲	
Maidstone and Tunbridge Wells NHS Trust			32	32	6.3%		24(14,189)
	Mr Mark Tyrrell	3156571	71	68	2.9%	▲	
Medway NHS Foundation Trust			91	91	3.3%		13(7, 30)
	Mr Samuel Andrews	3263664	*	*	*	▲	
	Miss Ginny Bowbrick	3407686	53	53	5.7%	▲	
	Mr Waleed Edrees	4483579	35	35	0.0%	▲	
Surrey and Sussex Healthcare NHS Trust			88	87	1.1%		11(7, 14)
	Mr Nicholas Hopkins	1599761	65	64	0.0%	▲	
	Mr Tom Loosemore	2650517	47	47	2.1%	▲	

Trust	Name	GMC	CEAs	Total CEAs with outcomes	% Stroke and/or Death	Status	Median (IQR)
Western Sussex Hospitals NHS Trust			83	81	3.7%		16(12, 24)
	Mr David Allen	2424538	*	*	*	▲	
	Mr David Beattie	3483523	46	44	6.8%	▲	
	Mr Mario Caruana	5194168	27	27	0.0%	▲	
	Mr Hany Hafez	4157834	10	10	0.0%	▲	
	Mr Peter Laws	3316050	13	13	0.0%	▲	
	Mr Mahmoud Salman	5201046	26	26	0.0%	▲	

South West England

Trust	Name	GMC	CEAs	Total CEAs with outcomes	% Stroke and/or Death	Status	Median (IQR)
Dorset County Hospital NHS Foundation Trust			88	88	5.7%		10(5, 29)
	Mr Robin Windhaber	4540162	6	6	0.0%	▲	
Gloucestershire Hospitals NHS Foundation Trust			193	193	1.0%		11(7, 18)
	Mr Richard Bulbulia	4100148	19	19	5.3%	▲	
	Mr David Cooper	4370789	53	53	0.0%	▲	
	Mr Jonothan Earnshaw	2495686	19	19	0.0%	▲	
	Mr Nick Matharu	4089573	*	*	*	▲	
	Mr Keith Poskitt	2386498	45	45	0.0%	▲	
	Miss Caroline Rodd	3453656	24	24	0.0%	▲	
	Mr Mark Whyman	2920742	32	32	3.1%	▲	
Great Western Hospitals NHS Foundation Trust			51	48	0.0%		10(7, 14)
	Mr Ravinder Singh Ranger	3550876	51	48	0.0%	▲	
North Bristol NHS Trust			112	110	0.9%		11(8, 17)
	Mr Antony Baker	2383299	40	38	0.0%	▲	
	Mr David Mitchell	2616656	40	40	0.0%	▲	
	Mr Bill Neary	4186102	16	16	0.0%	▲	
	Mr Andrew Weale	4327042	10	10	0.0%	▲	
Northern Devon Healthcare NHS Trust			79	76	7.9%		11(8, 20)
	Mr John V Taylor	4015491	51	49	6.1%	▲	
	Mr David Williams	3612945	24	20	10.0%	▲	
Plymouth Hospitals NHS Trust			124	118	2.5%		12(8, 19)
	Mr Simon Ashley	2824073	39	36	2.8%	▲	
	Mr Jamie Barwell	3566525	39	39	5.1%	▲	
	Mr Francis Dix	3687004	15	14	0.0%	▲	
	Surg Cdr Chris Parry	4026217	31	29	0.0%	▲	
Royal Bournemouth and Christchurch Hospitals NHS Foundation Trust			160	111	9.0%		18(8, 40)
	Mr Christopher Lee	4195964	9	6	0.0%	▲	
	Mr Dynesh Rittoo	3556456	85	63	11.1%	▲	
	Mr Lasantha Wijesinghe	3430817	66	42	7.1%	▲	
Royal Cornwall Hospitals NHS Trust			152	152	2.0%		9(6, 14)
	Mr Harvey Chant	3679834	7	7	0.0%	▲	
	Mr Jonathan Davies	2593577	47	47	2.1%	▲	
	Mr Kenneth Woodburn	3102675	61	61	3.3%	▲	
Royal Devon and Exeter NHS Foundation Trust			122	122	4.1%		12(5, 36)
	Mr David Birchley	4301949	26	26	0.0%	▲	
	Professor Bruce Campbell	2211312	6	6	16.7%	▲	
	Mr Andrew Robert Cowan	3259065	33	33	6.1%	▲	
	Mr John F Thompson	2579847	57	57	3.5%	▲	

Trust	Name	GMC	CEAs	Total CEAs with outcomes	% Stroke and/or Death	Status	Median (IQR)
Royal United Hospital Bath NHS Trust			171	160	4.4%		8(5, 12)
	Mr John Budd	2574220	32	32	3.1%	▲	
	Mr Mahesh Pai	4740993	135	124	4.0%	▲	
	Ms Rebecca Winterborn	4506146	*	*	*	▲	
Salisbury NHS Foundation Trust			71	71	0.0%		10(5, 33)
	Mr Saboor Ghauri	3460887	29	29	0.0%	▲	
	Miss Sarah Hulin	4152640	28	28	0.0%	▲	
	Mr Charles Ranaboldo	2939195	14	14	0.0%	▲	
South Devon Healthcare NHS Foundation Trust			82	82	2.4%		22(11, 36)
	Mr Ian Currie	3165704	36	36	5.6%	▲	
	Mr Robert McCarthy	3582996	46	46	0.0%	▲	
Taunton and Somerset NHS Foundation Trust			153	134	4.5%		11(8, 17)
	Mr John Chester	2431862	39	39	2.6%	▲	
	Mr Paul Eysers	3263970	34	34	2.9%	▲	
	Mr Ian Hunter	4637017	21	21	4.8%	▲	
	Mr Andrew Stewart	4258852	51	36	8.3%	▲	
	Mr John V Taylor	4015491	51	49	6.1%	▲	
	Mr David Williams	3612945	24	20	10.0%	▲	
University Hospitals Bristol NHS Foundation Trust			134	134	3.0%		13(9, 25)
	Mr Marcus Brooks	4066590	41	41	2.4%	▲	
	Mr Peter Lamont	1353493	48	48	0.0%	▲	
	Mr Frank Smith	2942580	45	45	6.7%	▲	

West Midlands

Trust	Name	GMC	CEAs	Total CEAs with outcomes	% Stroke and/or Death	Status	Median (IQR)
Dudley Group of Hospitals NHS Foundation Trust			242	231	0.4%		15(8, 53)
	Mr Simon Hobbs	4502609	44	44	6.8%	▲	
	Mr Ajantha Jayatunga	3231180	45	43	0.0%	▲	
	Mr Zahid Khan	4574356	89	63	3.2%	▲	
	Mr Rajiv Pathak	4585309	48	39	0.0%	▲	
	Mr Atiq-Ur Rehman	4255938	63	63	0.0%	▲	
	Miss Sandhya Shiralkar	4458298	83	83	1.2%	▲	
Heart of England NHS Foundation Trust			142	142	0.0%		11(8, 40)
	Mr Donald Adam	3478105	9	9	0.0%	▲	
	Professor Andrew Bradbury	3104189	14	14	0.0%	▲	
	Mr Martin Claridge	4308678	11	11	0.0%	▲	
	Mr Mark Gannon	2482662	27	27	0.0%	▲	
	Mr Harmeet Khaira	3292145	21	21	0.0%	▲	
	Mr Mark Scriven	3287992	31	31	0.0%	▲	
	Mr Antonius Wilmlink	3452411	29	29	0.0%	▲	
Royal Wolverhampton Hospitals NHS Trust			95	92	5.4%		11(7, 20)
	Mr Lionello Coen	2468633	16	15	6.7%	▲	
	Mr Teodor Gardecki	1613140	*	*	*	▲	
	Mr Andrew Garnham	3278790	32	31	0.0%	▲	
	Mr Simon Hobbs	4502609	44	44	6.8%	▲	
Sandwell and West Birmingham Hospitals NHS Trust			106	106	4.7%		18(11, 42)
	Mr Philip Thomas Nicholl	3257513	34	34	8.8%	▲	
	Mr Saurabh Rai	5197765	17	17	0.0%	▲	
	Mrs Rachel Sam	4293037	22	22	0.0%	▲	
	Mr Stanley Silverman	2376927	34	34	5.9%	▲	
Shrewsbury and Telford Hospital NHS Trust			130	129	3.1%		11(5, 24)
	Mr Arun Balakrishnan	4665432	*	*	*	▲	
	Mr Robert Duffield	1459791	*	*	*	▲	
	Mr Antony Fox	3261466	38	38	0.0%	▲	
	Mr Andrew Houghton	2654827	45	45	4.4%	▲	
	Ms Catherine Merriman	4645081	7	7	0.0%	▲	
	Mr Timothy Sykes	3546851	30	30	6.7%	▲	
University Hospital of North Staffordshire NHS Trust			104	103	1.9%		24(8, 91)
	Mr David Durrans	2296368	11	11	9.1%	▲	
	Mr Omer Ehsan	6047484	14	14	0.0%	▲	
	Mr Jack Fairhead	4648118	6	6	0.0%	▲	
	Mr Brian Gwynn	2302151	16	16	0.0%	▲	
	Mr Richard Morgan	2487777	8	8	0.0%	▲	
	Mr Laszlo Papp	4586812	9	9	0.0%	▲	
	Mr Arun Pherwani	4403676	47	47	2.1%	▲	
	Mr Julian Wong	3549263	20	19	5.3%	▲	

Trust	Name	GMC	CEAs	Total CEAs with outcomes	% Stroke and/or Death	Status	Median (IQR)
University Hospitals Birmingham NHS Foundation Trust			153	153	2.6%		21(15, 33)
	Mr Allen Edwards	2940942	18	18	0.0%	▲	
	Mrs Rachel Sam	4293037	22	22	0.0%	▲	
	Mr Malcolm Simms	1417973	53	53	5.7%	▲	
	Mr Simon Smith	1520251	14	14	0.0%	▲	
	Mr Alok Tiwari	4311757	32	32	0.0%	▲	
	Mr Rajiv Vohra	3158700	47	47	2.1%	▲	
University Hospitals Coventry and Warwickshire NHS Trust			210	198	1.0%		14(8, 46)
	Mr Daniel Higman	3117237	69	68	0.0%	▲	
	Professor Chris Imray	2837372	29	19	0.0%	▲	
	Mr Asif Mahmood	4195768	56	55	1.8%	▲	
	Miss Colette Marshall	3441729	56	56	1.8%	▲	
Walsall Healthcare NHS Trust			93	63	3.2%		31(12,109)
	Mr Amir Khan	3161748	*	*	*	▲	
	Mr Zahid Khan	4574356	89	63	3.2%	▲	
Worcestershire Acute Hospitals NHS Trust			162	154	0.0%		10(9, 19)
	Mr Amarjit Atwal	3245497	27	24	0.0%	▲	
	Mr Eric Grocott	3402210	52	52	0.0%	▲	
	Mr Nicholas Hickey	2855453	34	29	0.0%	▲	
	Mr Isaac Nyamekye	3354128	49	49	0.0%	▲	

Yorkshire and the Humber

Trust	Name	GMC	CEAs	Total CEAs with outcomes	% Stroke and/or Death	Status	Median (IQR)
Bradford Teaching Hospitals NHS Foundation Trust			127	126	0.8%		9(5, 18)
	Mr Kevin Mercer	3557990	18	18	0.0%	▲	
	Mr Kevin Molloy	4399359	21	21	4.8%	▲	
	Mr Nicholas Shaper	3201787	79	78	1.3%	▲	
	Professor Peter Vowden	2304476	9	9	0.0%	▲	
	Mr David Wilkinson	2940698	9	9	0.0%	▲	
Calderdale and Huddersfield NHS Foundation Trust			115	82	2.4%		12(9, 22)
	Mr Neeraj Bhasin	4630694	9	9	0.0%	▲	
	Mr Duncan Parry	4037844	75	42	2.4%	▲	
	Mr Narinder Sharma	2283571	31	31	3.2%	▲	
Doncaster and Bassetlaw Hospitals NHS Foundation Trust			174	168	1.8%		14(9, 23)
	Mr Duncan Drury	4729675	6	6	0.0%	▲	
	Mr Nandan Haldipur	5190165	32	27	0.0%	▲	
	Mr Jan Macierewicz	4528740	35	35	5.7%	▲	
	Mr Woolagasen Pillay	4600284	43	43	0.0%	▲	
	Mr Sewa Singh	2833811	24	23	0.0%	▲	
	Mr Peter Tan	3405756	34	34	2.9%	▲	
Hull and East Yorkshire Hospitals NHS Trust			239	239	5.0%		28(10, 98)
	Mr Bankole Akomolafe	4381653	55	55	9.1%	▲	
	Professor Ian Chetter	3480221	32	32	6.3%	▲	
	Mr Brian Johnson	2506845	46	46	2.2%	▲	
	Mr Rakesh Kapur	5204956	13	12	0.0%	▲	
	Mr Paul Renwick	2828527	27	27	3.7%	▲	
Leeds Teaching Hospitals NHS Trust			109	103	2.9%		7(5, 22)
	Mr David Berridge	2716154	20	16	0.0%	▲	
	Professor Shervanthi Homer-Vanniasinkam	3609732	*	*	*	▲	
	Mr Andrew Mavor	2633619	*	*	*	▲	
	Mr David Russell	4441658	33	33	0.0%	▲	
	Professor Julian Scott	2698386	12	12	8.3%	▲	
	Mr Max Troxler	4317320	28	28	7.1%	▲	
Mid Yorkshire Hospitals NHS Trust			105	101	2.0%		18(10, 34)
	Mr Sathish Bhasker	4469155	20	20	0.0%	▲	
	Mr Paul Curley	3222445	30	29	0.0%	▲	
	Mr Jon Hossain	3265611	26	24	0.0%	▲	
	Mr Craig Irvine	3274088	29	28	7.1%	▲	

Trust	Name	GMC	CEAs	Total CEAs with outcomes	% Stroke and/or Death	Status	Median (IQR)
Sheffield Teaching Hospitals NHS Foundation Trust			215	212	1.9%		26(16, 49)
	Professor Jonathan Beard	2499965	34	34	0.0%	▲	
	Mr Peter Dominic Dodd	3353206	33	32	3.1%	▲	
	Mr Ed Mulkern	3555259	18	16	0.0%	▲	
	Mr Raj Nair	4273497	42	42	4.8%	▲	
	Mr Ahmed Nassef	4454232	*	*	*	▲	
	Mr Shah Nawaz	3433470	49	49	0.0%	▲	
York Teaching Hospital NHS Foundation Trust			345	329	3.6%		7(4, 12)
	Mr Marco Baroni	4413446	96	96	3.1%	▲	
	Mr Stephen Cavanagh	3540415	78	75	4.0%	▲	
	Mr Alistair McCleary	3337732	136	123	4.1%	▲	
	Mr Andrew Thompson	4528960	35	35	2.9%	▲	

Northern Ireland

Trust	Name	GMC	CEAs	Total CEAs with outcomes	% Stroke and/or Death	Status	Median (IQR)
Belfast Health and Social Care Trust			411	408	1.7%		15(8, 35)
	Mr Robin Baker	4034810	32	32	3.1%	▲	
	Mr Paul Blair	2587907	67	67	1.5%	▲	
	Mr Raymond Hannon	2702627	27	27	0.0%	▲	
	Mr Denis Harkin	3688751	57	57	1.8%	▲	
	Mr Louis Lau	3486791	49	49	2.0%	▲	
	Mr Bernard Lee	1386662	34	33	3.0%	▲	
	Mr Andrew McKinley	3054710	106	104	1.0%	▲	
	Miss Julie Reid	4443265	39	39	2.6%	▲	
Southern Health and Social Care Trust			25	15	6.7%		8(5, 11)
	Mr Colin Weir	2916961	*	*	*	▲	
Western Health and Social Care Trust			50	49	4.1%		19(10, 34)
	Mr Ken McCune	3335156	36	36	2.8%	▲	

Scotland

Trust	Name	GMC	CEAs	Total CEAs with outcomes	% Stroke and/or Death	Status	Median (IQR)
NHS Ayrshire & Arran			72	72	2.8%		13(11, 34)
	Mr Steven Boom	2923398	72	72	2.8%	▲	
NHS Dumfries and Galloway			98	98	3.1%		26(14, 40)
	Mr Joseph Sathianathan	4635455	85	85	3.5%	▲	
NHS Fife			40	39	5.1%		20(9, 46)
	Mr Gareth Griffiths	2805702	12	12	0.0%	▲	
	Miss Alison Howd	2484664	14	14	7.1%	▲	
	Mr Alan Milne	3485666	31	29	0.0%	▲	
NHS Forth Valley			100	96	2.1%		13(8, 31)
	Mr Richard Holdsworth	2709394	58	58	1.7%	▲	
	Ms Karen Murphy	4305015	*	*	*	▲	
NHS Grampian			52	31	6.5%		11(7, 16)
	Mr Paul Bachoo	3264122	*	*	*	▲	
	Mr Euan Munro	3179152	11	11	9.1%	▲	
	Mr Michael Sharp	3466182	*	*	*	▲	
	Mr Andrew Tambyraja	4539418	7	7	0.0%	▲	
NHS Greater Glasgow and Clyde			130	130	0.8%		15(9, 30)
	Mr Kevin Daly	4310505	37	37	0.0%	▲	
	Mr David Kingsmore	3585009	54	54	0.0%	▲	
	Mr Douglas Orr	3442706	26	26	3.8%	▲	
	Mr Paul Teenan	2555203	13	13	0.0%	▲	
NHS Highland			154	111	2.7%		30(16, 52)
	Mr Bernhard Wolf	3619124	154	111	2.7%	▲	
NHS Lanarkshire			40	38	5.3%		22(13, 25)
	Mr Roy Scott	2554491	10	9	0.0%	▲	
NHS Lothian			250	250	1.6%		15(11, 24)
	Mr Paul John Burns	4229357	66	66	4.5%	▲	
	Mr Roderick Chalmers	3171587	54	54	0.0%	▲	
	Professor Dave Lewis	3489660	7	7	0.0%	▲	
	Mr Aidas Raudonaitis	6029716	15	15	0.0%	▲	
	Mr Zahid Raza	3495924	69	69	0.0%	▲	
	Mr Andrew Tambyraja	4539418	7	7	0.0%	▲	
NHS Tayside			64	47	0.0%		15(11, 17)
	Mr Murray Flett	3322194	25	25	0.0%	▲	
	Mr Gareth Griffiths	2805702	12	12	0.0%	▲	
	Miss Alison Howd	2484664	14	14	7.1%	▲	
	Mr Alan Milne	3485666	31	29	0.0%	▲	

Wales

Trust	Name	GMC	CEAs	Total CEAs with outcomes	% Stroke and/or Death	Status	Median (IQR)
Abertawe Bro Morgannwg University Health Board			260	257	2.3%		12(6, 51)
	Mr Chris Davies	4639686	35	35	0.0%	▲	
	Mr Louis Fligelstone	3141799	36	36	5.6%	▲	
	Mr Richard Hedges	2539629	44	44	0.0%	▲	
	Mr Aidas Raudonaitis	6029716	15	15	0.0%	▲	
	Mr Angus Ruddle	3405103	94	91	3.3%	▲	
	Mr Justin Woolgar	3494538	36	36	0.0%	▲	
Aneurin Bevan Health Board			167	160	0.6%		18(11, 38)
	Mr Peter Lewis	2501008	41	40	0.0%	▲	
	Mr Ahmed Shandall	2255118	45	41	0.0%	▲	
Betsi Cadwaladr University Health Board			129	129	1.6%		32(15, 60)
	Mr Tony daSilva	3144297	29	29	3.4%	▲	
	Mr Otto Klimach	2236775	70	70	1.4%	▲	
	Mr Dean Williams	3499643	7	7	0.0%	▲	
Cardiff and Vale University Health Board			22	19	10.5%		*
	Miss Susan Hill	3067057	22	19	10.5%	▲	
Cwm Taf University Health Board			83	82	2.4%		15(9, 26)
	Mr Michael Rocker	4118167	42	42	0.0%	▲	

Appendix 1: OPCS codes used in this report

AAA repair

Code	Description
L19.4	Other replacement of aneurysmal segment of aorta, Replacement of aneurysmal segment of infrarenal abdominal aorta by anastomosis of aorta to
L19.5	Other replacement of aneurysmal segment of aorta, Replacement of aneurysmal segment of abdominal aorta by anastomosis of aorta to aorta nec
L19.6	Other replacement of aneurysmal segment of aorta, Replacement of aneurysmal bifurcation of aorta by anastomosis of aorta to iliac artery nec
L19.8	Other replacement of aneurysmal segment of aorta, Replacement of aneurysmal segment of abdominal aorta by anastomosis of aorta to femoral artery
L27.1	Preferred EVAR code - Endovascular insertion of stent graft for infrarenal abdominal aortic aneurysm
L27.5	preferred EVAR code -Endovascular insertion of stent graft for aortic aneurysm of bifurcation NEC
L27.6	preferred EVAR code- Endovascular insertion of stent graft for aorto-monoiliac aneurysm
L27.8	preferred EVAR code - Other specified transluminal insertion of stent graft for aneurysmal segment of aorta
L27.9	preferred EVAR code - Unspecified transluminal insertion of stent graft for aneurysmal segment of aorta
L28.1	Endovascular stenting for infrarenal abdominal aortic aneurysm
L28.5	Endovascular stenting of aortic bifurcation NEC
L28.6	Endovascular stenting of aorto-uniiliac aneurysm
L28.8	Other specified transluminal operations on aneurysmal segment of aorta
L28.9	Unspecified transluminal operations on aneurysmal segment of aorta

Endarterectomy of carotid artery

Code	Description
L29.4	Endarterectomy of carotid artery and patch repair of carotid artery
L29.5	Endarterectomy of carotid artery NEC

Glossary and abbreviations

AAA	Abdominal Aortic Aneurysm
BSIR	British Society for Interventional Radiology
CEA	Carotid Endarterectomy
EVAR	Endovascular Aneurysm Repair (a graft placed under X ray guidance, usually via the groin arteries)
MDT	Multi Disciplinary Team
Median	The median is a method of measuring an average of a sample of data. It describes the mid-value (50 th percentile) when the observed values are ranked from the smallest to the highest.
NAAASP	National Abdominal Aortic Aneurysm Screening Programme
NCEPOD	National Confidential Enquiry into Peri-operative Death
NVD	National Vascular Database
OPCS	Operating Procedure Code Supplement (version 4.4 used)
Open Repair	Open Aneurysm Repair (the traditional open surgical approach)
Risk adjustment	A process that uses statistical techniques to predict how the outcome of treatment is influenced by different patient characteristics. The resulting prediction model is used to remove the effect of these characteristics when the outcomes of health care providers are being compared.
VASGBI	Vascular Anaesthesia Society of Great Britain & Ireland
VSGBI	Vascular Society of Great Britain & Ireland

References

Spiegelhalter DJ. Funnel plots for comparing institutional performance. Stat Med 2005; 24(8): 1185-202.

The Royal College of Surgeons of England is dedicated to enabling surgeons achieve and maintain the highest standards of surgical practice and patient care. To achieve this, the College is committed to making information on surgical care accessible to the public, patients, health professionals, regulators and policy makers.

Registered charity number: 212808

Copyright © 2013, The Royal College of Surgeons of England, National Vascular Registry.

All rights reserved.

This document may be freely distributed as a whole document without changes, deletions or additions, and used for non-commercial, scientific, educational or personal purposes. The material remains the sole and exclusive property of the Royal College of Surgeons of England. This document may not be modified in any form without written consent. Re-use of this work for profit must be granted by the Royal College of Surgeons of England.