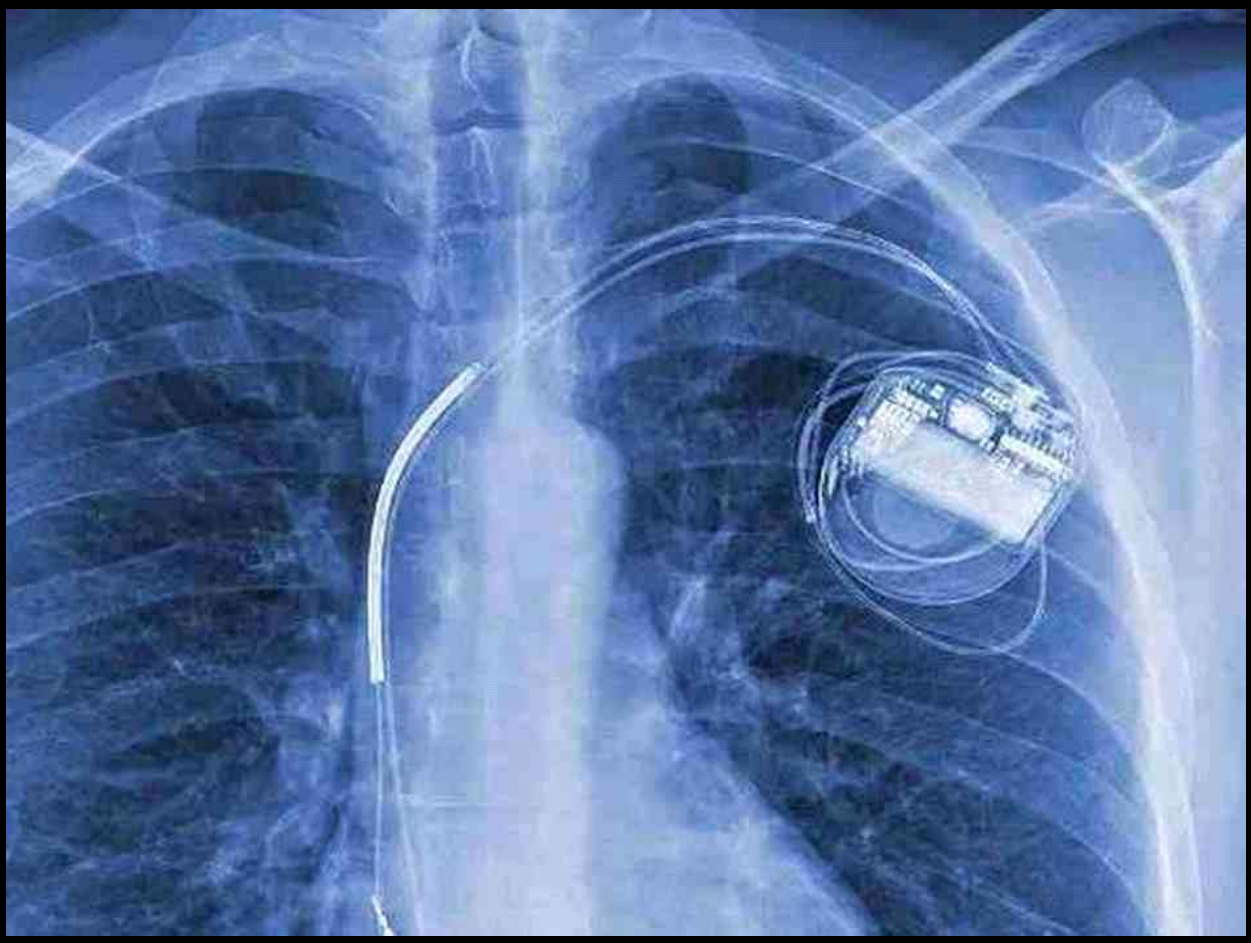
NICOR

BHRS
British Heart Rhythm Society



NATIONAL AUDIT OF CARDIAC RHYTHM MANAGEMENT DEVICES

2013-14

NICOR (National Institute for Cardiovascular Outcomes Research) is a partnership of clinicians, IT experts, statisticians, academics and managers which manages six cardiovascular clinical audits and three clinical registers. NICOR analyses and disseminates information about clinical practice in order to drive up the quality of care and outcomes for patients.

The **British Cardiovascular Society** promotes education, training and research in cardiovascular health and upholds clinical and professional standards.

The **British Heart Rhythm Society** (formerly Heart Rhythm UK) is an affiliated group of the British Cardiovascular Society and the Arrhythmia Alliance, and is dedicated to improving all aspects of cardiac arrhythmia care and electrical device based therapies. It provides an essential link between professionals working within pacing, devices and electrophysiology in the UK.

The **Healthcare Quality Improvement Partnership (HQIP)** is led by a consortium of the Academy of Medical Royal Colleges, the Royal College of Nursing and National Voices. Its aim is to promote quality improvement, and in particular to increase the impact of clinical audit in England and Wales. HQIP hosts the contract to manage and develop the National Clinical Audit and Patient Outcomes Programme (NCAPOP). The programme comprises 40 clinical audits that cover care provided to people with a wide range of medical, surgical and mental health conditions.

Founded in 1826, **UCL** (University College London) was the first English university established after Oxford and Cambridge, the first to admit students regardless of race, class, religion or gender, and the first to provide systematic teaching of law, architecture and medicine. It is among the world's top universities, as reflected by performance in a range of international rankings and tables. UCL currently has almost 29,000 students from 150 countries and more than 9,500 employees. Its annual income is over £900 million.

1. Acknowledgements

The National Audit of Cardiac Rhythm Management Devices is managed by the National Institute for Cardiovascular Outcomes Research (NICOR), which is part of the National Centre for Cardiovascular Prevention and Outcomes, based at University College London. Clinical leadership for the audit is provided by the British Cardiovascular Society and British Heart Rhythm Society. The audit steering group includes major stakeholders in the audit, including cardiologists, the professional societies, physiologists, commissioners and patient group representatives.

We would especially like to thank the contribution of all NHS Trusts and the individual physiologists, clinicians and audit teams who collect data and participate in the audit.

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This report is available online at www.ucl.ac.uk/nicor/audits/cardiacrhythmmanagement/publicreports and www.devicesurvey.com

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2. Executive Summary

This 9th annual report of the National Audit of Cardiac Rhythm Management Devices (CRM Audit) describes cardiac device implants in hospitals in England and Wales for the period April 2013 to March 2014. It is the first of these annual reports to present information at hospital level, and the first to report on the financial rather than calendar year. These changes now bring this report into line with those produced for most other national audits.

This report details the implant rates of pacemakers (PM) and implantable cardioverter defibrillators (ICDs), including those providing cardiac resynchronization therapy (CRT), within the UK from 1 April 2013 to 31 March 2014.

- Overall implant rates are given for Wales, Northern Ireland and England, and comparisons are given with other EU countries (Scotland is excluded due to incomplete reporting)
- Hospitals implanting more than five pacemakers, ICDs, or CRT devices are listed, grouped geographically (by Local Area Team).
- Detailed information is then given for each hospital's activity, listing new and replacement implants for each device type, the percentage of physiological pacing for sinus node disease (as an index of quality), and the proportion of primary and secondary ICD and CRT implants with high energy shock capability (CRT-D).

The key findings of the report are:

- There has been a steady increase in pacemaker implant rates across the UK in recent years, in line with an ageing population.
- The implant rates for ICDs dropped substantially two years ago and have plateaued since.
- CRT implant rates have continued to increase and approach or exceed national targets.
- Total UK implant rates for pacemakers, ICDs and all high energy devices (ICD + CRT-D) are significantly lower than the Western European average
- The total rate of CRT therapy implantation in the UK is slightly above the European average.

The CRM Audit is managed by the National Institute for Cardiovascular Outcomes Research (NICOR), which is part of University College London (UCL) with the British Heart Rhythm Society (BHRS) providing clinical leadership through the Audit Steering Group, co-chaired by Dr Francis Murgatroyd and Dr Nick Linker.

3. Foreword from National Clinical Director (Cardiac)

I welcome publication of this, the 9th UK Cardiac Rhythm Management (CRM) Device Audit Report, covering the implantation of cardiac pacemakers, implantable defibrillators (ICDs) and cardiac resynchronisation therapy (CRT) in the period April 2013 to March 2014.

A national clinical audit requires dedicated input from a wide range of professionals. During 2013, Francis Murgatroyd, Chair of the BHRS Audit Committee has, together with David Cunningham and colleagues at NICOR, re-designed the database to make it easier to use and more relevant to modern device management. I am pleased to be able to recognise their hard work in achieving this. Complete and accurate data requires the sustained efforts of clinical physiologists, nurses and clinicians at the device centres. Their time is often unfunded, yet freely given, and all concerned also deserve our recognition and thanks.

The results for 2013/14 continue to show a continued rise in implant rates for both pacemakers. ICD implant rates are unchanged, but there has been a continued rise in CRT implants (which probably explains some of the lack of increase in non-CRT ICDs). As in previous years, optimism must be tempered by the observation that UK device implant rates, particularly for pacemakers, remain below those of many comparable European countries. Clinicians and commissioners are encouraged to follow best practice guidelines, such as those published by the National Institute for Health & Care Excellence (NICE) and be alert to any inequity in provision of these devices.

This national CRM device audit continues to provide an essential tool for understanding current practice, and how we might best plan for future improvement. As in previous years, I warmly commend it to all who commission and deliver cardiac device therapy.

Professor Huon Gray
National Clinical Director (Cardiac)
NHS England

4. Foreword from Audit Clinical Lead

First of all, my sincere thanks to David Cunningham, Morag Cunningham, Steve Gilbert, Adél de Lange and all the other staff at NICOR who have contributed both to the preparation of this report and the operation and development of the audit throughout the year. Most of all, thanks to the hundreds of individuals (principally physiologists, also nurses, data managers, and doctors) for submitting data over the year.

Reporting has moved to financial year

Previous reports have been by calendar year – the last being for 2012 - but in line with almost all the other national audits, we have moved to financial year reporting. This inevitably means a hiatus: the months of January – March 2013 have not appeared in any report.

What do we cover in the report?

This report details the implant rates of pacemakers (PM) and implantable cardioverter defibrillators (ICDs), including those providing cardiac resynchronization therapy (CRT), within the UK from 1 April 2013 to 31 March 2014.

- Overall implant rates are given for England, Wales, Northern Ireland and comparisons are given with other EU countries (see below in regard to Scotland).
- Centres implanting ≥5 pacemakers, ≥5 ICDs, and ≥5 CRT devices are listed, grouped geographically (by Local Area Team).
- Detailed information is then given for each hospital's activity, listing new and replacement implants for each device type, the percentage of physiological pacing for sinus node disease (as an index of quality), and the proportion of primary and secondary ICD and CRT implants with high energy shock capability (CRT-D).

What does the report show?

The UK can be credited with a good provision of CRT overall. This probably reflects the organisation of heart failure services identifying patients in need of this therapy, and the appreciation of the heart failure community that it improves quality of life as well as mortality, and is highly cost-effective.

However, it is clear that UK implant rates for most types of device remain lower than for other Western European countries. For pacemakers, there has been a steady increase in implant rates in recent years, in line with an ageing population, but we are still well below the Western European average. For non-CRT defibrillators, the UK implant rate dropped substantially two years ago and has remained flat since. This may be partially due to an increasing proportion of patients receiving CRT, but our total defibrillator implant rate (ICD + CRT-D) is around half of the Western European average.

Where the UK continues to trail behind the rest of the developed world, therefore, is in the identification of patients needing pacemakers and defibrillators. The former may reflect poor availability and uptake of investigations such as Holter monitors, implantable loop recorders, and

perhaps lack of awareness of the indications for pacing amongst primary care and secondary care specialists. The low rate of ICD implants probably reflects lack of awareness of the need for this therapy in the primary prevention population (i.e. those at substantial risk of sudden cardiac death, who have not had an arrhythmic event – yet). The details of the existing NICE guidelines, which only mandated ICDs as primary prevention in the coronary population, and required additional qualifiers, will not have helped. The 2014 NICE guidance on ICD and CRT is both simpler and much more in line with international guidelines – it is to be hoped that this will streamline patient identification and that future reports will show a better performance in the European league tables.

Finally, the report shows that a number of centres appear to be implanting fairly small numbers of devices. For pacemakers, most of these are private hospitals, but a number of NHS centres have volumes of complex procedures that lie well below the norms suggested in the 2012 BHRS Standards document.

What has happened to the geographic data ("implant rate maps")?

In addition to details of activity by implanting centre, previous reports detailed implant rates by geographical populations (Primary Care Trusts and Cardiac Networks and in 2012 Local Area Teams). We gave breakdowns of the Clinical Commissioning Groups falling within each LAT, and the demographics of the local populations, from which local needs could be estimated. This work provided, we think, valuable information allowing areas of relative under provision to be identified (overprovision was rare!), and helping reduce postcode provision.

This work required substantial manpower to chase and validate patient postcodes for thousands of procedures, and a substantial analytic effort - it was in the past funded by donations from industry and more recently charity. We very much hope that funding will be provided in the future to restore this valuable analysis.

Why is some Scottish data missing?

The British Heart Rhythm Society (formerly Heart Rhythm UK) represents all professionals in the UK looking after patients with heart rhythm disturbances, and the audit is intended to cover the whole of the UK. However, a number of implanting centres in the West of Scotland have decided not to submit data to the registry in recent years, so have not appeared in the report. Nevertheless, most Scottish centres have submitted, and from their feedback it is clear that they very much wish this to be acknowledged and to appear in the report – this we have done. However we have only included England, Wales, Northern Ireland, in the national statistics and trends, as the Scottish data submitted would significantly under-represent the true total figures. We very much hope that in future years all centres will join this audit exercise which will help maintain standards and detail regional provision of these vital cardiac services.

Plans for the future

The national dataset for pacemakers and defibrillators started in the 1970s as the British Pacing and Electrophysiology Group Database, and was the first in the world. Its content has evolved gradually since those early days but has struggled to keep up with the increasing complexity of device procedures.

It was also chiefly designed as a registry and its audit capabilities were therefore limited. After a considerable period of consultation (with the medical and allied professions, government stakeholders, industry, and patient representation) a new dataset was designed and went "live" on 1 April 2014. This is therefore the last report using the old dataset. We hope that the new dataset will permit more detailed and accurate reporting of procedure types, operators, etc. We will include lead extractions for the first time, as well as implantable loop recorders and other monitors, and hope that the dataset is sufficiently flexible to permit a considerable degree of future-proofing (e.g. provision for subcutaneous defibrillators and leadless pacemakers). We intend to show hospital and operator procedure numbers on our website once we are happy with the validation process, and eventually intend to report outcomes for key procedures (principally complications estimated by re-intervention etc).

Francis Murgatroyd

Audit lead, British Heart Rhythm Society

Chair, BHRS Registry and Audit Steering Committee

Nick Linker

President, British Heart Rhythm Society

5. Introduction

This 9th annual report of the National Audit of Cardiac Rhythm Management Devices (CRM Audit) describes cardiac device implantation performance in each device implanting hospital in England and Wales for the period April 2013 to March 2014. It is the first of these annual reports to present information at this level, and the first to report on the financial rather than calendar year. These changes now bring this report into line with those produced for most other national audits.

The central task of the CRM device audit has always been, and remains, to provide a central core of clinical audit data describing the total implant volumes of the three main implantable cardiac device types – pacemakers for bradycardia, implantable cardioverter defibrillators, and cardiac resynchronisation therapy devices for advanced heart failure. This report now places local hospital performance for several NICE guidelines within a national context. As in previous reports it also reports on trends in national rates of implantation and compares current rates with those in other European countries.

The report presents information on implantation activity for all implanting hospitals in England and Wales, as well as three in Northern Ireland and six in Scotland. For each hospital implanting cardiac devices, the report shows their location and Local Area Team (LAT), and the number of each class of device implanted. It also compares local performance to the current national average performance against key quality indicators which align to NICE guidelines on Physiological Pacing for Sick Sinus Syndrome and Indications for High Energy Devices. (See Appendix 1 for details of NICE Guidelines and Technology Appraisals relevant to this audit.)

A new, redesigned reporting dataset was introduced for use by all hospitals from April 2014 - the first such change for over a decade. This is therefore the final annual report to be derived from the earlier dataset used for all previous reports. With the introduction of the new dataset we anticipate reporting activity by clinician from financial year 2014/15.

This report is aimed at clinicians, healthcare managers, clinical governance leads, commissioners and all healthcare professionals and members of the general public interested in improving the provision and quality of device and arrhythmia services in the UK.

6. Aims and objectives of the audit

The aim of the CRM Audit is to examine the implant rates and outcomes of all patients who undergo pacemaker, ICD and CRT implantation procedures in the UK.

The audit has the following objectives:

- To collect data about all implanted cardiac devices, and all patients receiving interventional procedures for management of cardiac rhythm disorders, in the UK.
- To report activity, trends and outcomes in pacing and ICD practice in UK hospitals.
- To report on long term survival rates of patients who undergo procedures for management of cardiac rhythm disorders, in the UK.
- To continue to collect and develop the presentation of data from pacemaker, ICD and electrophysiology centres in the United Kingdom
- To provide new analyses and outputs of the data as defined by the clinical group.

7. Methodology

7.1 Organisation of the National CRM Audit

The audit is managed by the National Institute for Cardiovascular Outcomes Research (NICOR), which is part of University College London (UCL). NICOR's mission is to provide timely and accurate data on cardiovascular outcomes for the public, healthcare providers and the medical profession.

The audit is commissioned by the Healthcare Quality Improvement Partnership (HQIP) as part of the National Clinical Audit and Patient Outcomes Programme (NCAPOP).

The British Heart Rhythm Society (BHRS) provides clinical leadership through the Audit Steering Group, which also includes representation from a wide range of other stakeholders and is co-chaired by Dr Francis Murgatroyd and Dr Nick Linker.

The current membership of the Audit Steering Group is shown in Appendix 2.

7.2 Participating hospitals

The CRM Audit collects data from all hospitals undertaking implantation activity in England, Wales and Northern Ireland, as well as several in Scotland. Participation statistics for all hospitals participating in the 2013/14 audit are shown in the Participation section of the report. A summary listing of the hospitals is also shown in Appendix 3.

7.3 Data collection and IT

Participating hospitals provide NICOR with audit data on implantation activity throughout the year. Hospitals can either enter audit data manually via a dedicated interface or upload it from existing hospital systems using commercial or locally developed software. All data uploaded is encrypted on transmission and stored in encrypted form in NICOR's central database.

All data held by NICOR are managed in a secure environment and in compliance with UCL's Information Governance and Security policies. NICOR is registered under the Data Protection Act and has support under Section 251 of the National Health Service (NHS) Act 2006 to collect and store patient identifiable data without explicit consent

7.4 Definitions - "New" and "Total" Implants

There are three classes of device considered in this report:

- Pacemakers (PM) - for treatment of symptomatic bradycardia
- Implantable cardiac defibrillators (ICD) - for treatment of cardiac arrest and patients suffering or at risk from life threatening ventricular tachyarrhythmias.
- Cardiac resynchronisation therapy devices (CRT) - for treatment of heart failure.

- CRT devices can use low energy pacing-type pulses only (CRT-P) or can also have the capability to deliver defibrillating shocks (CRT-D). The two types of device are mostly counted together in this report.

The first time a patient receives a device, the procedure is classed as a "new implant". If that device is replaced with another of the same class (due usually to battery depletion) then that procedure is classed as a "replacement implant".

If however the patient's device type is changed, for instance from a pacemaker to a CRT device, then the CRT implant will be classed as a "new implant".

For the purposes of this Report, the word "total" is defined as "new plus replacement" implants. Where data are combined for different modes e.g. single plus dual chamber, CRT-P plus CRT-D, this is made clear in the text, or the word "all" is used.

7.5 Notes on comparisons with information in previous reports

Change to reporting by financial year

This report is based on data provided by hospitals for the financial year April 2013 to March 2014. Previous annual reports used data for the calendar year to December, the most recent including data to the end of December 2012. Data for January to March 2013 has been collected and is available for future analysis, but has not been used in this report.

The move to calculating annual rates based on data for the financial year is not considered to have a material effect on comparisons with historic or European rates based on calendar year data.

Change to reporting at hospital level

This report analyses data only by the hospital performing the implantation. CRM Audit Reports up to 2011 analysed data at the level of Primary Care Trusts (PCTs) and Cardiac Networks, and in 2012 on the basis of Clinical Commissioning Groups (CCGs) and Local Area Teams (LATs). The audit data continues to be able to support these analyses, but their inclusion is no longer funded.

As a result it is not possible to make direct comparisons with the implant rate data from previous reports.

8. Findings

The findings of the 2013/14 report are structured as follows:

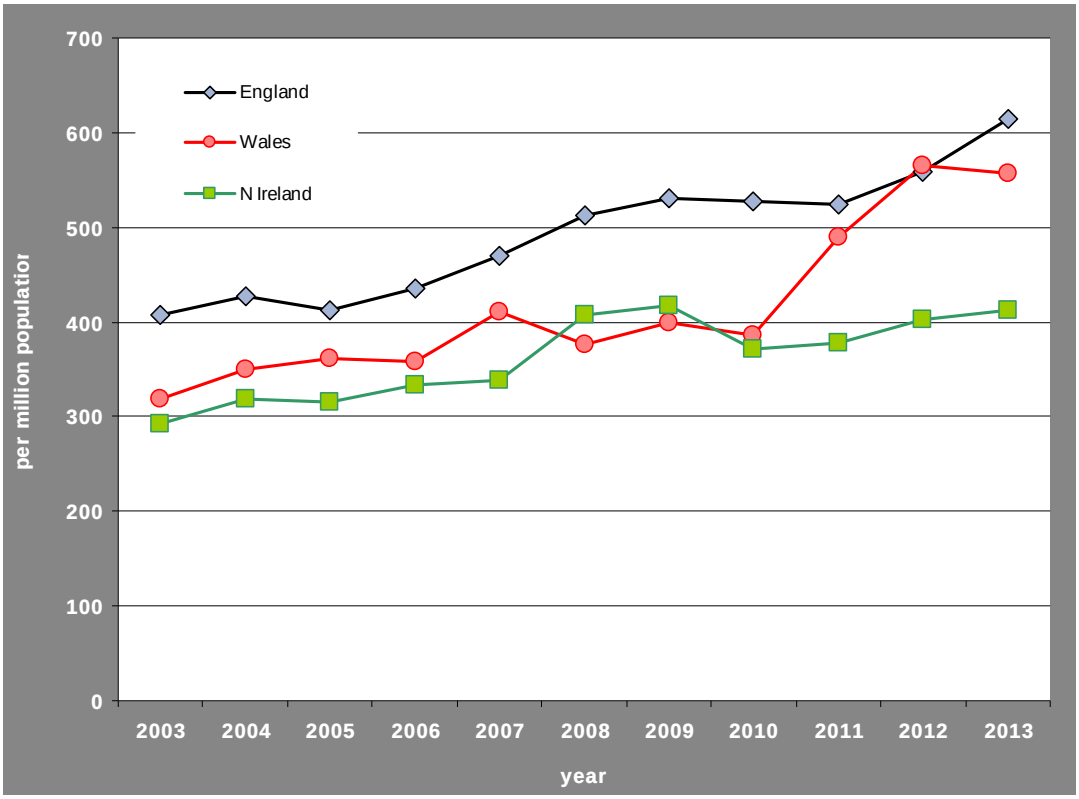
- Overview of device implants in the UK
- European implant rates
- Indicators of performance against NICE guidelines
- Level of participation by implanting hospitals
- Number of procedures carried out and performance of individual hospitals

8.1 Overview of device implants in the UK - National Implant Rate Trends

Figure 1: New Pacemaker Implant Rate per million population

	2013/14 rate	2012 rate
ENGLAND	614	559
WALES	557	565
N IRELAND	413	402
SCOTLAND	Incomplete data	-

Figure 2: New pacemaker implant rate trend 2003-2013



As shown in Figure 2, the new pacemaker implant rate in England has increased significantly to 614 per million population. There has been a slight drop in the rate in Wales. Despite a small increase in 2013/14 the implant rate for Northern Ireland remains significantly lower than for England or Wales

Data submissions from Scotland remain incomplete and have been excluded from the analysis.

Figure 3: New ICD Implant Rate per million population

	2013/14 rate	2012 rate
ENGLAND	72	66
WALES	66	64
N IRELAND	78	77
SCOTLAND	Incomplete data	-

Figure 4: New ICD implant rate trend 2003-2013

Figure 4 shows the new ICD implant rate in England has increased to 72 per million population.

The rates in Wales and Northern Ireland remain essentially unchanged.

Data submissions from Scotland remain incomplete and have been excluded from the analysis.

Figure 5: Total CRT Implant Rate per million population

Including both new and replacement CRT-P and CRT-D

	2013/14 rate	2012 rate
ENGLAND	151	136
WALES	133	122
N IRELAND	115	98
SCOTLAND	Incomplete data	-

Figure 6: All CRT implant rate trend 2003-2013

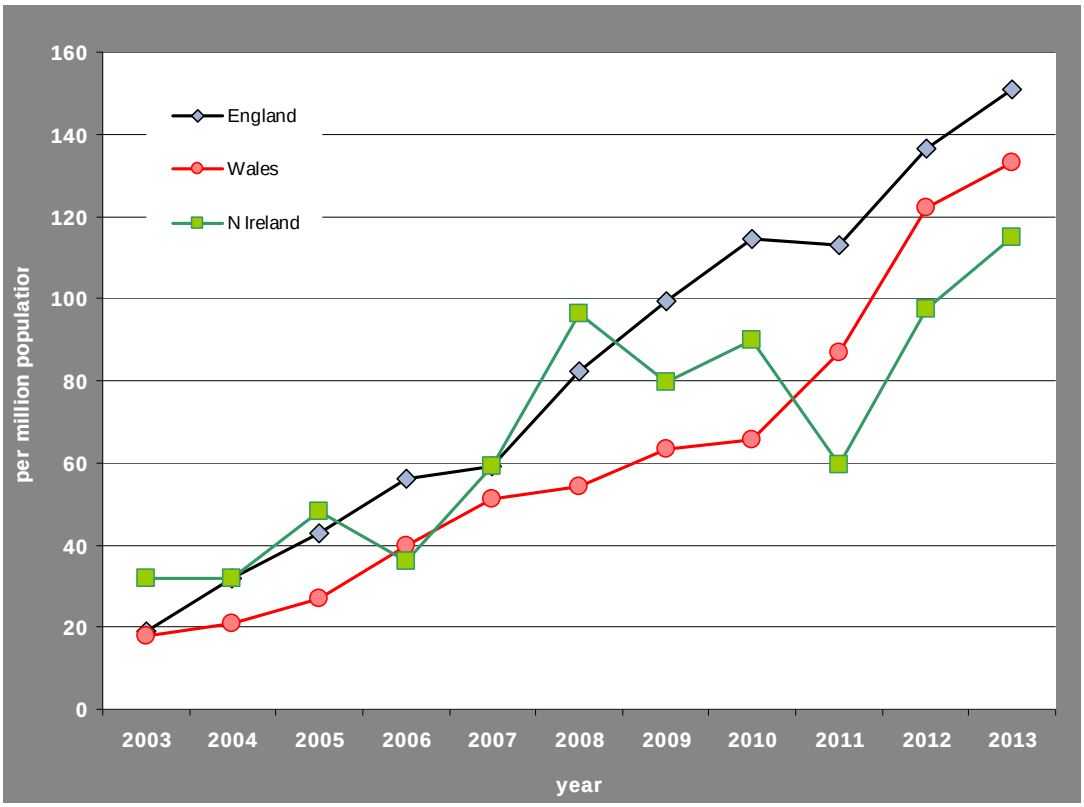


Figure 6 shows the total rate in England has increased to 151 per million population, and continues to exceed the national target of 130. There was a similar increase in the rate for Wales.

The rate for Northern Ireland again showed a significant increase, but is still below those for England and Wales. Data submissions from Scotland remain incomplete and have been excluded from the analysis.

General note on rates and trends

Up to 2010, population estimates were year-on-year projections (from ONS) of the population, extrapolating from the 2001 census. In general these projections tend to under-estimate the true population. The rates from 2011 onwards use the accurate population from the 2011 census, so a slight increase in actual implant rate might be masked by replacing a population under-estimate with a true estimate. (Note - the rates in these graphs are NOT adjusted for age and sex).

The rates for 2013 are calculated using data for the financial year (the 12 months from April 2013 to March 2014). Prior year rates remain based on calendar year data and are unchanged from those presented in previous year's reports.

8.2 European Implant Rates 2013

The charts in this section compare the following implant rates across all European countries:

- New pacemaker implants
- New ICD implants
- Total CRT implants
- Total High Energy Device implants (total ICD + total CRT-D)

Commentary

The charts highlight the following findings:

- The UK new pacemaker implant rate (588) is well below the Western European average (696).
    - This has been consistently so for more than a decade. There are no clinical reasons why the need for pacemakers should be less in the UK.
- The UK new ICD implant rate (72) is much lower than the Western European average (141).
    - This rate has been falling further behind in recent years. Again, there are no clinical reasons why the need for ICDs should be less in the UK.
- The total rate of CRT therapy implantation in the UK is slightly above the European average.
    - This is mainly due to a higher than average implant rate of CRT-P devices.
- The rate of implantation of all high energy devices (ICD + CRT-D) is only slightly more than half the European average.

Figure 7: Pacemaker new implant rate 2013

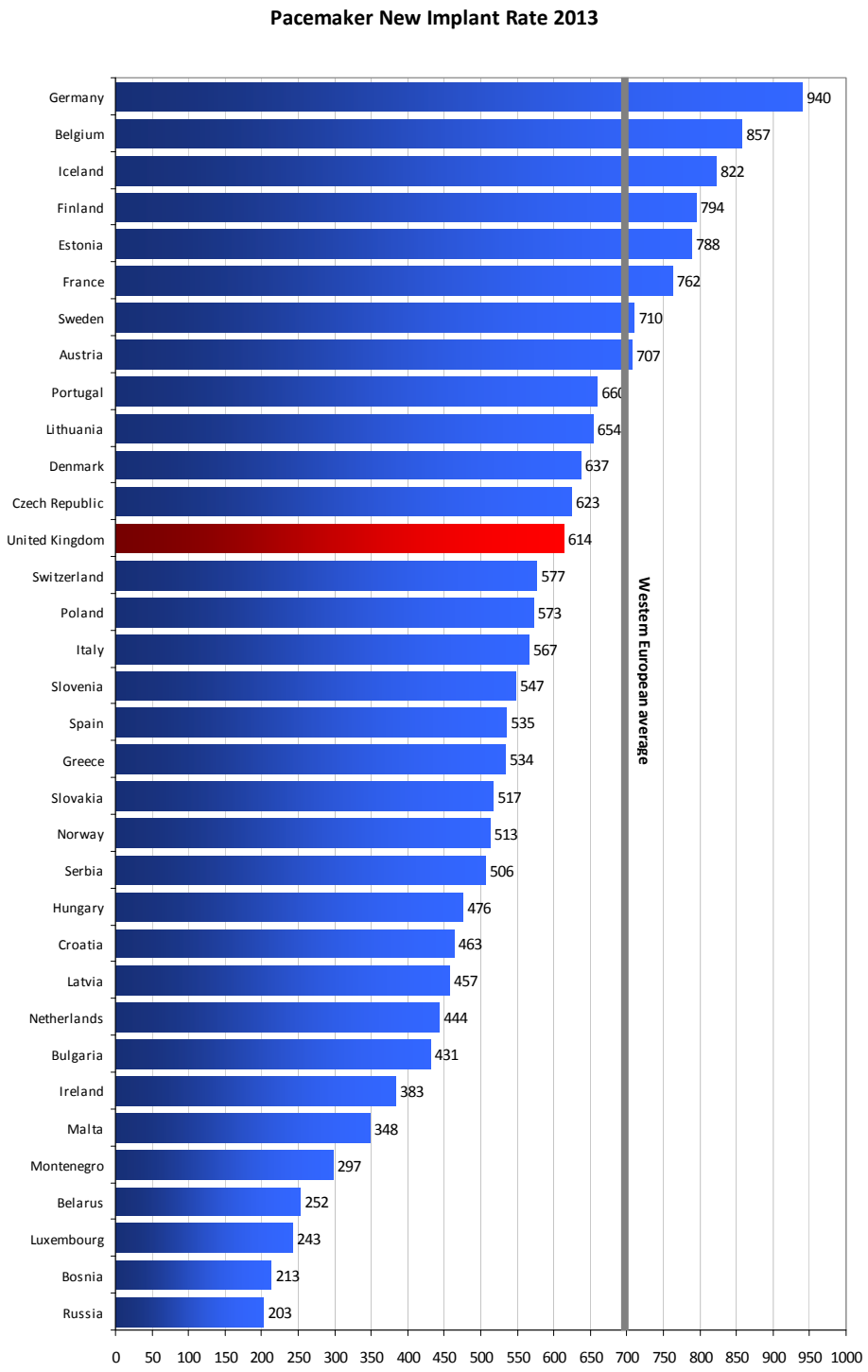


Figure 7 shows Western European average new pacemaker implant rate (2013) = **696** per million population. UK data is from financial year 2013-14 registrations. Data for all other countries from EHRA White Book for calendar year 2013.

Figure 8: ICD new implant rate 2013

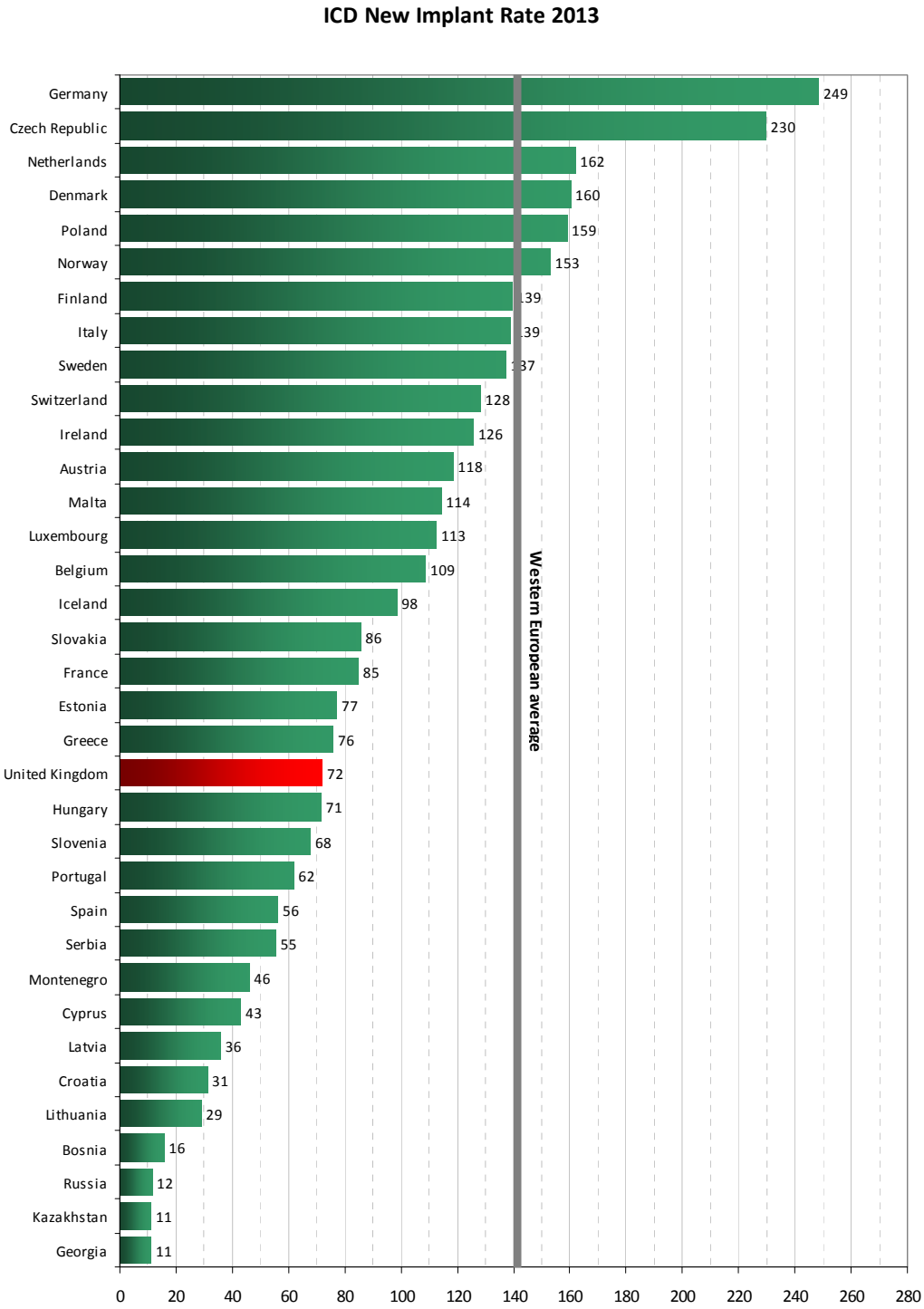


Figure 8 shows Western European average new ICD implant rate (2013) = **141** per million population. UK data is from financial year 2013-14 registrations. Data for all other countries from EHRA White Book for calendar year 2013.

Figure 9: CRT total implant rate 2013

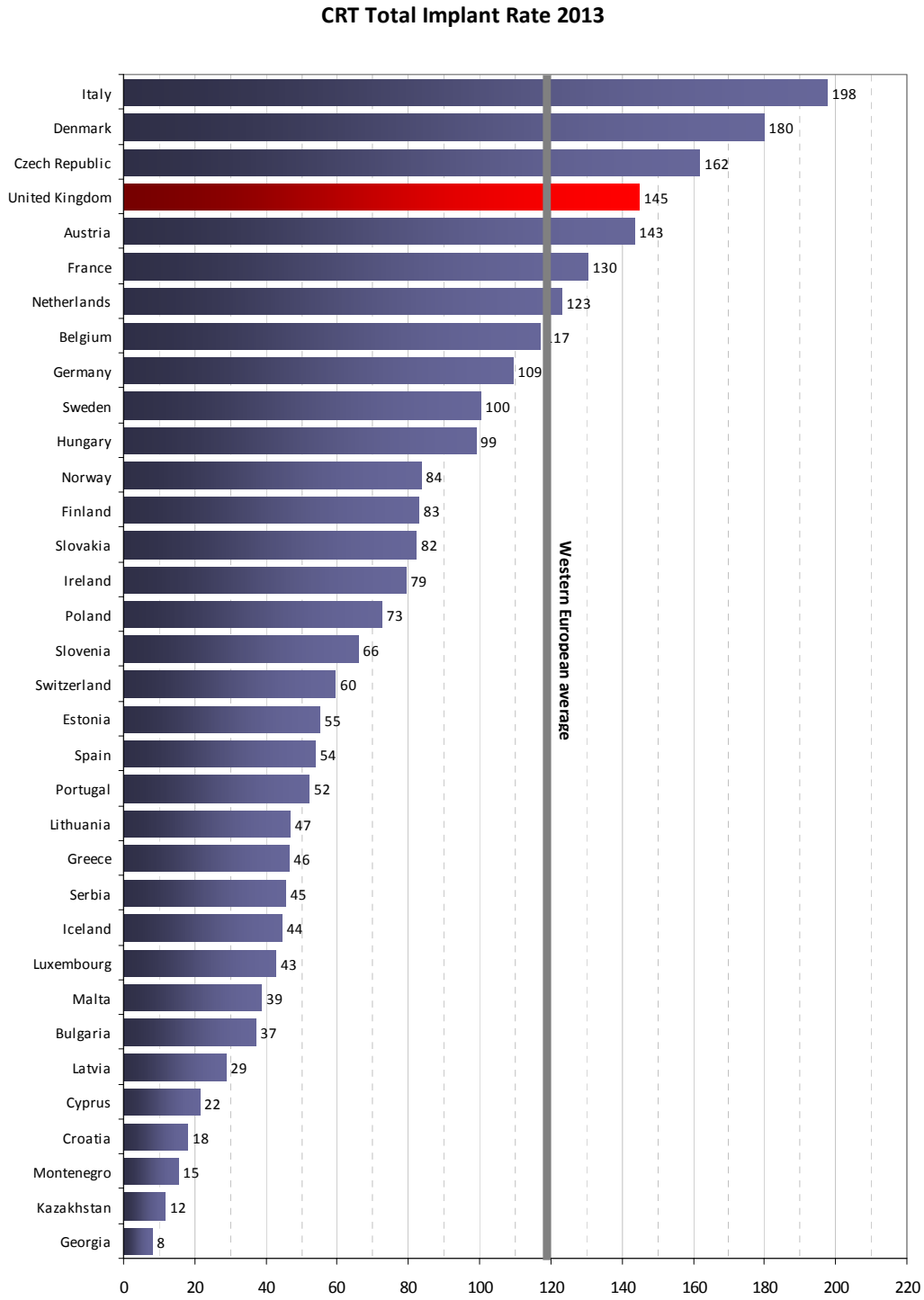


Figure 9 shows Western European average total CRT implant rate (2013) = **119** per million population. UK data is from financial year 2013-14 registrations. Data for all other countries from EHRA White Book for calendar year 2013.

Figure 10: High energy devices total implant rate 2013

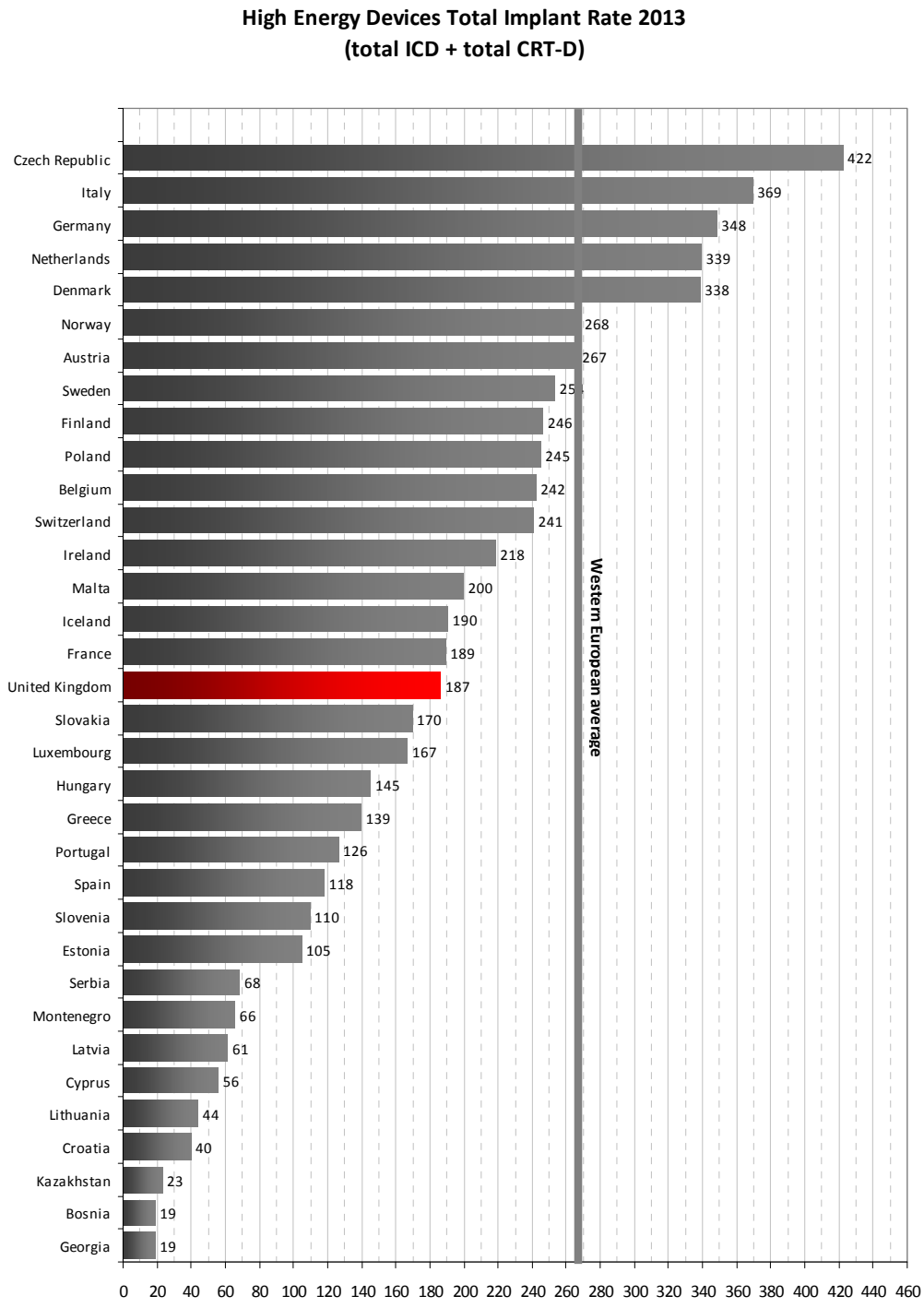


Figure 10 shows Western European average high energy device implant rate (2013) = **267** per million population. UK data from financial year 2013-14 registrations. Data for all other countries from EHRA White Book for calendar year 2013.

Note on sources of data

Data was abstracted from European Heart Rhythm Association White Book for 2013 (calendar year), available at: http://www.escardio.org/communities/EHRA/publications/Documents/ehra-white-book-2014.pdf.

Ireland did not split their pacemaker (PM) and ICD data into new and replacement numbers so these were inferred from historical data.

Germany did not split CRT data into CRT-P and CRT-D numbers, so these were also inferred from historical data.

Western European Average

The Western European average is a population-weighted average of the data from the following countries:

Austria
Belgium
Czech Republic
Denmark
Finland
France
Germany
Greece
Ireland
Italy
Netherlands
Norway
Portugal
Spain
Sweden
Switzerland

8.3 Indicators of performance against NICE guidelines

The hospital level data presented in this report includes information pertaining to the following indicators:

- Physiological Pacing in Sick Sinus Syndrome (NICE Technology Appraisal TA88)
- Indication for High Energy Devices (NICE Technology Appraisal TA314)

The following information is reported for each applicable hospital:

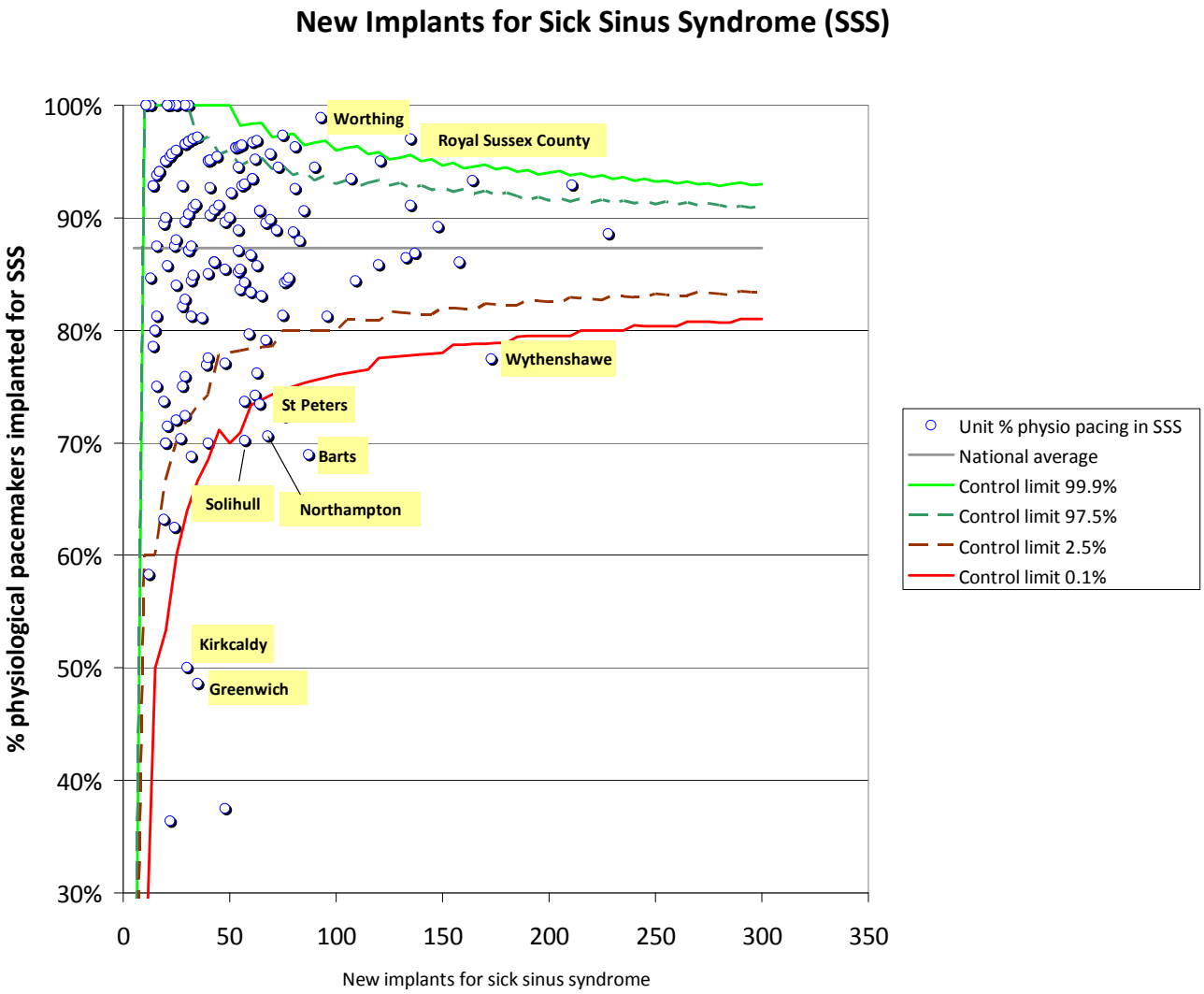
- The percentage of physiological pacing implants as a proportion of all new implants for Sick Sinus Syndrome.
- The percentage of ICD and CRT-D implants which are for primary or secondary prevention.

The data for Sick Sinus Syndrome is summarised in the funnel chart below.

Two hospitals (Worthing Hospital and Royal Sussex County Hospital) significantly exceed the national average of 87.3% and are to be commended for that.

Nine other hospitals, named on the chart, were significantly below the national average, and should re-examine their data to ensure accuracy of coding, and if accurate, consider modifying their mode prescription practice.

Figure 11: New implants for sick sinus syndrome (SSS)



Criteria for inclusion in analysis

At least 10 new implants carried out for Sick Sinus Syndrome with a registered mode of pacing.

Note - Sick Sinus Syndrome is identified by ECG codes E1-E5.

8.4 Level of Participation by Implanting Hospitals

Procedures registered in NICOR on 1/11/2014. A 'tick' indicates the centre has performed 5 or more of this implant type in 2013-14.

Q44. Cheshire, Warrington and Wirral

Centre		PM	ICD	CRT
Arrowe Park Hospital	Birkenhead	✓		
Countess of Chester Hospital	Chester	✓		
Warrington Hospital	Warrington	✓		

Q45. Durham, Darlington and Tees

Centre		PM	ICD	CRT
Darlington Memorial Hospital	Darlington	✓		
The James Cook University Hospital	Middlesborough	✓	✓	✓
University Hospital of Hartlepool	Hartlepool	✓		
University Hospital of North Durham	Durham	✓		

Q46. Greater Manchester

Centre		PM	ICD	CRT
BMI The Alexandra Hospital	Manchester	✓		✓
Manchester Royal Infirmary	Manchester	✓	✓	✓
North Manchester General Hospital	Manchester	✓		
Rochdale Infirmary	Rochdale	✓	✓	✓
Royal Albert Edward Infirmary	Wigan	✓		
Royal Bolton Hospital	Bolton	✓	✓	✓
Royal Oldham Hospital	Oldham	✓		✓
Salford Royal Hospital	Salford	✓		
Stepping Hill Hospital	Stockport	✓		
Tameside Hospital	Ashton-under-Lyne	✓		
Trafford General Hospital	Manchester	✓		
Wythenshawe Hospital	Manchester	✓	✓	✓

Q47. Lancashire

Centre		PM	ICD	CRT
Blackpool Victoria Hospital	Blackpool	✓	✓	✓
Royal Blackburn Hospital	Blackburn	✓		✓
Royal Preston Hospital	Preston	✓		

Q48. Merseyside

Centre		PM	ICD	CRT
Aintree University Hospital	Liverpool	✓		
Alder Hey Hospital	Liverpool	✓		
Liverpool Heart & Chest Hospital	Liverpool	✓	✓	✓
Royal Liverpool University Hospital	Liverpool	✓		
Whiston Hospital	Prescot	✓		

Q49. Cumbria, Northumberland, Tyne and

Centre		PM	ICD	CRT
Cumberland Infirmary	Cumbria	✓		
Freeman Hospital Newcastle	Newcastle	✓	✓	✓
Queen Elizabeth Hospital Gateshead	Gateshead	✓		
SOUTH TYNESIDE DISTRICT HOSPITAL	South Shields	✓		
Sunderland Royal Hospital	Sunderland	✓		
Wansbeck General Hospital	Ashington	✓	✓	✓
Westmoreland General Hospital	Kendal	✓		✓

Q50. North Yorkshire and Humber

Centre		PM	ICD	CRT
Castle Hill Hospital	Hull	✓	✓	✓
Diana, Princess of Wales Hospital Grimsby	Grimsby	✓		✓
Harrogate District Hospital	Harrogate	✓		✓
Scarborough Hospital	Scarborough	✓		
Scunthorpe General Hospital	Scunthorpe	✓		
Spire Hull and East Riding Hospital	Hull	✓		
The York Hospital	York	✓		

Q51. South Yorkshire and Bassetlaw

Centre		PM	ICD	CRT
Barnsley Hospital	Barnsley	✓		
Doncaster Royal Infirmary	Doncaster	✓		
Northern General Hospital Sheffield	Sheffield	✓	✓	✓
Rotherham Hospital	Rotherham	✓		

Q52. West Yorkshire

Centre		PM	ICD	CRT
Airedale General Hospital	Keighley	✓	✓	✓
Bradford Royal Infirmary	Bradford	✓	✓	✓
Calderdale Royal Hospital	Halifax	✓	✓	✓
Dewsbury District Hospital	Dewsbury	✓		
Huddersfield Royal Hospital	Huddersfield	✓	✓	✓
Leeds General Infirmary	Leeds	✓	✓	✓
Pinderfields General Hospital	Wakefield	✓	✓	✓
Spire Leeds Hospital	Leeds	✓		

Q53. Arden, Herefordshire and Worcesters

Centre		PM	ICD	CRT
BMI The Meriden Hospital	Coventry			
County Hospital Hereford	Hereford	✓	✓	✓
George Eliot Hospital	Nuneaton	✓		
University Hospital Coventry	Coventry	✓	✓	✓
Warwick Hospital	Warwick	✓	✓	✓
Worcestershire Royal Hospital	Worcester	✓	✓	✓

Q54. Birmingham and The Black Country

Centre		PM	ICD	CRT
Birmingham Childrens Hospital	Birmingham	✓		
Birmingham City Hospital	Birmingham	✓		✓
BMI The Priory Hospital Birmingham	Edgbaston	✓		
Good Hope Hospital	Sutton Coldfield	✓	✓	✓
New Cross Hospital (Wolverhampton Heart Ce	Wolverhampton	✓	✓	✓
Queen Elizabeth Hospital Birmingham	Birmingham	✓	✓	✓
Russells Hall Hospital	Dudley	✓	✓	✓
Sandwell General Hospital	West Bromwich	✓	✓	✓
Solihull Hospital	Solihull	✓		
Walsall Manor Hospital	Walsall	✓	✓	✓

Q55. Derbyshire and Nottinghamshire

Centre		PM	ICD	CRT
Chesterfield Royal Hospital	Chesterfield	✓		
Kings Mill Hospital	Sutton-in-Ashfield	✓	✓	✓
Nottingham City Hospital	Nottingham	✓	✓	✓
Royal Derby Hospital	Derby	✓	✓	

Q56. East Anglia

Centre		PM	ICD	CRT
Addenbrookes Hospital	Cambridge	✓	✓	✓
Colchester General Hospital	Colchester	✓	✓	
Norfolk & Norwich University Hospital	Norwich	✓	✓	✓
Papworth Hospital	Cambridge	✓	✓	✓
Peterborough City Hospital	Peterborough	✓		
The Ipswich Hospital	Ipswich	✓		

Q57. Essex

Centre		PM	ICD	CRT
Basildon Hospital	Basildon	✓	✓	✓
Broomfield Hospital	Chelmsford	✓		
Princess Alexandra Hospital Harlow	Harlow	✓		
Southend University Hospital	Southend	✓	✓	

Q58. Hertfordshire and The South Midlands

Centre		PM	ICD	CRT
Bedford Hospital	Bedford	✓		
Kettering General Hospital	Kettering	✓	✓	✓
Lister Hospital	Stevenage	✓		
Luton & Dunstable Hospital	Luton	✓		
Milton Keynes Hospital	Milton Keynes	✓	✓	✓
Northampton General Hospital	Northampton	✓	✓	✓
Watford General Hospital	Watford	✓	✓	✓

Q59. Leicestershire and Lincolnshire

Centre		PM	ICD	CRT
Glenfield Hospital	Leicester	✓	✓	✓
Lincoln County Hospital	Lincoln	✓		
Pilgrim Hospital	Boston	✓	✓	✓
Spire Leicester Hospital	Leicester	✓		

Q60. Shropshire and Staffordshire

Centre		PM	ICD	CRT
Princess Royal Hospital Telford	Telford	✓	✓	✓
Queens Hospital Burton	Burton Upon Trent	✓		
Royal Shrewsbury Hospital	Shrewsbury			
Stafford Hospital	Stafford	✓		
University Hospital of North Staffs	Stoke-on-Trent	✓	✓	✓

Q64. Bath, Gloucestershire, Swindon and W

Centre		PM	ICD	CRT
Cheltenham General Hospital	Cheltenham	✓	✓	✓
Royal United Hospital Bath	Bath	✓		
Salisbury District Hospital	Salisbury	✓	✓	✓
The Great Western Hospital	Swindon	✓	✓	✓

Q65. Bristol, North Somerset, Somerset and

Centre		PM	ICD	CRT
Frenchay Hospital	Bristol	✓	✓	
Weston General Hospital	Weston Super Mare	✓		
Yeovil District Hospital	Yeovil	✓		

Q65. Bristol, North Somerset, Somerset and

Centre		PM	ICD	CRT
Bristol Royal Hospital for Children	Bristol	✓		
Bristol Royal Infirmary	Bristol	✓	✓	✓
Musgrove Park Hospital	Taunton	✓	✓	✓
Spire Bristol Hospital	Bristol	✓		

Q66. Devon, Cornwall and Isles Of Scilly

Centre		PM	ICD	CRT
Derriford Hospital	Plymouth	✓	✓	✓
North Devon District Hospital	Barnstable	✓		
Royal Cornwall Hospital	Truro	✓	✓	✓
Royal Devon & Exeter Hospital	Exeter	✓	✓	✓
Torbay Hospital	Torquay	✓	✓	✓

Q67. Kent and Medway

Centre		PM	ICD	CRT
Darent Valley Hospital	Dartford	✓	✓	✓
Maidstone Hospital	Maidstone	✓	✓	✓
Medway Maritime Hospital	Gillingham	✓	✓	✓
Queen Elizabeth the Queen Mother Hospital	Margate	✓	✓	✓
Tunbridge Wells Hospital	Tunbridge Wells	✓		
William Harvey Hospital	Ashford	✓	✓	✓

Q68. Surrey and Sussex

Centre		PM	ICD	CRT
Conquest Hospital	St Leonards on Sea	✓	✓	✓
East Surrey Hospital	Redhill	✓	✓	
Eastbourne District General Hospital	Eastbourne	✓	✓	✓
Epsom Hospital	Epsom	✓		
Frimley Park Hospital	Frimley	✓	✓	✓
Royal Surrey County Hospital	Guildford	✓	✓	✓
Royal Sussex County Hospital	Brighton	✓	✓	✓
St Richards Hospital	Chichester	✓	✓	✓
Worthing Hospital	Worthing	✓	✓	✓

Q69. Thames Valley

Centre		PM	ICD	CRT
John Radcliffe Hospital	Oxford	✓	✓	✓
Royal Berkshire Hospital	Reading	✓	✓	✓
Wexham Park Hospital	Slough	✓	✓	✓
Wycombe Hospital	High Wycombe	✓		

Q70. Wessex

Centre		PM	ICD	CRT
Basingstoke & North Hampshire Hospital	Basingstoke	✓	✓	✓
Dorset County Hospital	Dorchester	✓	✓	✓
Poole Hospital	Poole	✓		
Queen Alexandra Hospital	Portsmouth	✓	✓	✓
Royal Bournemouth Hospital	Bournemouth	✓	✓	✓
Royal Hampshire County Hospital	Winchester	✓		
Southampton General Hospital	Southampton	✓	✓	✓
Spire Southampton Hospital	Southampton	✓		✓
St Marys Hospital Isle of Wight	Newport	✓		

Q71. London

Centre		PM	ICD	CRT
Barnet General Hospital	Barnet	✓	✓	✓
Barts and the London	London	✓	✓	✓
Central Middlesex Hospital	Park Royal	✓		
Chelsea & Westminster Hospital	London	✓		
Cromwell Hospital	London	✓	✓	✓
Croydon University Hospital	Croydon	✓	✓	✓
Ealing Hospital	London	✓		
Great Ormond Street Hospital	London	✓	✓	
Hammersmith Hospital	London	✓	✓	✓
Harefield Hospital	Uxbridge	✓	✓	✓
Harley Street Clinic	London	✓	✓	✓
King George Hospital Goodmayes	Goodmayes	✓		
Kings College Hospital	London	✓	✓	✓
Kingston Hospital	Kingston-upon-Thames	✓		
Lewisham Hospital	London	✓		
London Bridge Hospital	London	✓	✓	✓
London Independent Hospital	London	✓		
North Middlesex University Hospital	London	✓		
Northwick Park Hospital	Harrow	✓	✓	✓
Queen Elizabeth Hospital Greenwich	Greenwich	✓	✓	✓
Royal Brompton Hospital	London	✓	✓	✓
Royal Free Hospital	London	✓	✓	✓
St Anthonys Hospital	North Cheam	✓		
St Georges Hospital	London	✓	✓	✓
St Marys Hospital Paddington	London	✓	✓	✓
St Peters Hospital	Chertsey	✓	✓	✓
St Thomas Hospital	London	✓	✓	✓
The Princess Royal University Hospital Bromley	Bromley	✓		
University College Hospital	London	✓	✓	✓
Wellington Hospital North	London	✓	✓	✓
Whipps Cross University Hospital	London	✓		

North Wales

Centre		PM	ICD	CRT
Glan Clwyd District General Hospital	Rhyl	✓		
Gwynedd Hospital	Bangor	✓	✓	✓
Maelor Hospital Wrexham	Wrexham	✓	✓	✓

South Wales

Centre		PM	ICD	CRT
Glangwili General Hospital	Carmarthen	✓		
Morriston Hospital	Swansea	✓	✓	✓
Neville Hall Hospital	Abergavenny	✓		
Prince Charles Hospital	Merthyr Tydfil	✓		
Princess Of Wales Hospital	Bridgend	✓		
Royal Glamorgan Hospital	Ynysmaerdy	✓		✓
Royal Gwent Hospital	Newport	✓		
University Hospital of Wales	Cardiff	✓	✓	✓

N Ireland

Centre		PM	ICD	CRT
Belfast City Hospital	Belfast	✓	✓	✓
Craigavon Area Hospital	Portadown	✓		✓
Royal Hospitals Belfast	Belfast	✓	✓	✓

Scotland

Centre		PM	ICD	CRT
Dumfries and Galloway Royal Infirmary	Dumfries	✓		
Edinburgh Royal Infirmary	Edinburgh	✓	✓	✓
Golden Jubilee Hospital	Glasgow	✓	✓	✓
Queen Margaret Hospital	Dunfermline			
Royal Infirmary Aberdeen	Aberdeen	✓	✓	✓
Victoria Hospital Kirkcaldy	Kirkcaldy	✓		✓

8.5 Hospital Reports

All procedures registered in NICOR at 1/11/2014.

Important: new NICE Guidelines (TA314) published June 2014

for all patients with Left Ventricular Ejection Fraction <=35%, assess NYHA (Dyspnoea) Status and QRS Duration:

	NYHA class			
QRS duration	I	II	III	IV
<120ms	ICD if there is a high risk of sudden cardiac death			ICD and CRT not clinically indicated
120-149ms without LBBB	ICD	ICD	ICD	CRT-P
120-149ms with LBBB	ICD	CRT-D	CRT-P or CRT-D	CRT-P
≥150ms with or without LBBB	CRT-D	CRT-D	CRT-P or CRT-D	CRT-P

Q44. Cheshire, Warrington and Wirral

Centre: **Arrowe Park Hospital**

Town/City: **Birkenhead**

Local Area Team: **Q44. Cheshire, Warrington and Wirral**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**253**	**46**	**299**
ICD			
CRT-P			
CRT-D			

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**51**	
Physiological pacing implants	**47**	
% physiological pacing for SSS	**92 %**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:		*ICD national*		*CRT-D national*
Primary prevention:		*44%*		*72%*
Secondary prevention:		*55%*		*27%*
Other indication:		*1%*		*1%*

Centre: **Countess of Chester Hospital**

Town/City: **Chester**

Local Area Team: **Q44. Cheshire, Warrington and Wirral**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**140**	**38**	**178**
ICD			
CRT-P			
CRT-D			

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**28**	
Physiological pacing implants	**23**	
% physiological pacing for SSS	**82 %**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:		*ICD national*		*CRT-D national*
Primary prevention:		*44%*		*72%*
Secondary prevention:		*55%*		*27%*
Other indication:		*1%*		*1%*

Centre: **Warrington Hospital**

Town/City: **Warrington**

Local Area Team: **Q44. Cheshire, Warrington and Wirral**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**92**	**6**	**98**
ICD			
CRT-P			
CRT-D			

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**15**	
Physiological pacing implants	**12**	
% physiological pacing for SSS	**80 %**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:		*ICD national*		*CRT-D national*
Primary prevention:		*44%*		*72%*
Secondary prevention:		*55%*		*27%*
Other indication:		*1%*		*1%*

Q45. Durham, Darlington and Tees

Centre: **Darlington Memorial Hospital**

Town/City: **Darlington**

Local Area Team: **Q45. Durham, Darlington and Tees**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**152**	**34**	**186**
ICD			
CRT-P			
CRT-D			

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**53**	
Physiological pacing implants	**51**	
% physiological pacing for SSS	**96 %**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:		*ICD national*		*CRT-D national*
Primary prevention:		*44%*		*72%*
Secondary prevention:		*55%*		*27%*
Other indication:		*1%*		*1%*

Centre: **The James Cook University Hospital**

Town/City: **Middlesborough**

Local Area Team: **Q45. Durham, Darlington and Tees**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**351**	**85**	**436**
ICD	**140**	**29**	**169**
CRT-P			**25**
CRT-D			**76**

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**81**	
Physiological pacing implants	**75**	
% physiological pacing for SSS	**93 %**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:	140	*ICD national*	60	*CRT-D national*
Primary prevention:	49%	*44%*	67%	*72%*
Secondary prevention:	31%	*55%*	15%	*27%*
Other indication:	20%	*1%*	18%	*1%*

Centre: **University Hospital of Hartlepool**

Town/City: **Hartlepool**

Local Area Team: **Q45. Durham, Darlington and Tees**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**158**	**47**	**205**
ICD			
CRT-P			
CRT-D			

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**41**	
Physiological pacing implants	**39**	
% physiological pacing for SSS	**95 %**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:		*ICD national*		*CRT-D national*
Primary prevention:		*44%*		*72%*
Secondary prevention:		*55%*		*27%*
Other indication:		*1%*		*1%*

Centre: **University Hospital of North Durham**

Town/City: **Durham**

Local Area Team: **Q45. Durham, Darlington and Tees**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**92**	**23**	**115**
ICD			
CRT-P			
CRT-D			

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**29**	
Physiological pacing implants	**29**	
% physiological pacing for SSS	**100 %**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:		*ICD national*		*CRT-D national*
Primary prevention:		*44%*		*72%*
Secondary prevention:		*55%*		*27%*
Other indication:		*1%*		*1%*

Q46. Greater Manchester

Centre: **BMI The Alexandra Hospital**

Town/City: **Manchester**

Local Area Team: **Q46. Greater Manchester**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**54**	**15**	**69**
ICD	**2**	**1**	**3**
CRT-P			**5**
CRT-D			**5**

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**4**	
Physiological pacing implants	**4**	
% physiological pacing for SSS	**%**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:		*ICD national*		*CRT-D national*
Primary prevention:		*44%*		*72%*
Secondary prevention:		*55%*		*27%*
Other indication:		*1%*		*1%*

Centre: **Manchester Royal Infirmary**

Town/City: **Manchester**

Local Area Team: **Q46. Greater Manchester**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**162**	**78**	**240**
ICD	**51**	**45**	**96**
CRT-P			**81**
CRT-D			**103**

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**53**	
Physiological pacing implants	**45**	
% physiological pacing for SSS	**85 %**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:	47	*ICD national*	48	*CRT-D national*
Primary prevention:	43%	*44%*	77%	*72%*
Secondary prevention:	57%	*55%*	23%	*27%*
Other indication:		*1%*		*1%*

Centre: **North Manchester General Hospital**

Town/City: **Manchester**

Local Area Team: **Q46. Greater Manchester**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**63**	**10**	**73**
ICD			
CRT-P			
CRT-D			

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**6**	
Physiological pacing implants	**5**	
% physiological pacing for SSS	**%**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:		*ICD national*		*CRT-D national*
Primary prevention:		*44%*		*72%*
Secondary prevention:		*55%*		*27%*
Other indication:		*1%*		*1%*

Centre: **Rochdale Infirmary**

Town/City: **Rochdale**

Local Area Team: **Q46. Greater Manchester**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**191**	**59**	**250**
ICD	**24**	**13**	**37**
CRT-P			**25**
CRT-D			**25**

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**39**	
Physiological pacing implants	**27**	
% physiological pacing for SSS	**69 %**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:	22	*ICD national*	14	*CRT-D national*
Primary prevention:	32%	*44%*	79%	*72%*
Secondary prevention:	68%	*55%*	21%	*27%*
Other indication:		*1%*		*1%*

Centre: **Royal Albert Edward Infirmary**

Town/City: **Wigan**

Local Area Team: **Q46. Greater Manchester**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**141**	**44**	**185**
ICD			
CRT-P			
CRT-D			

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**47**	
Physiological pacing implants	**40**	
% physiological pacing for SSS	**85 %**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:		*ICD national*		*CRT-D national*
Primary prevention:		*44%*		*72%*
Secondary prevention:		*55%*		*27%*
Other indication:		*1%*		*1%*

Centre: **Royal Bolton Hospital**

Town/City: **Bolton**

Local Area Team: **Q46. Greater Manchester**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**135**	**38**	**173**
ICD	**23**	**11**	**34**
CRT-P			**40**
CRT-D			**55**

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**35**	
Physiological pacing implants	**34**	
% physiological pacing for SSS	**97 %**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:	22	*ICD national*	32	*CRT-D national*
Primary prevention:	64%	*44%*	78%	*72%*
Secondary prevention:	36%	*55%*	22%	*27%*
Other indication:		*1%*		*1%*

Centre: **Royal Oldham Hospital**

Town/City: **Oldham**

Local Area Team: **Q46. Greater Manchester**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**78**	**21**	**99**
ICD	**2**	**2**	**4**
CRT-P			
CRT-D			**3**

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**13**	
Physiological pacing implants	**13**	
% physiological pacing for SSS	**100 %**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:		*ICD national*		*CRT-D national*
Primary prevention:		*44%*		*72%*
Secondary prevention:		*55%*		*27%*
Other indication:		*1%*		*1%*

Centre: **Salford Royal Hospital**

Town/City: **Salford**

Local Area Team: **Q46. Greater Manchester**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**97**	**26**	**123**
ICD			
CRT-P			**3**
CRT-D			

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**16**	
Physiological pacing implants	**12**	
% physiological pacing for SSS	**75 %**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:		*ICD national*		*CRT-D national*
Primary prevention:		*44%*		*72%*
Secondary prevention:		*55%*		*27%*
Other indication:		*1%*		*1%*

Centre: **Stepping Hill Hospital**

Town/City: **Stockport**

Local Area Team: **Q46. Greater Manchester**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**105**	**4**	**109**
ICD			
CRT-P			
CRT-D			

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**31**	
Physiological pacing implants	**27**	
% physiological pacing for SSS	**87 %**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:		*ICD national*		*CRT-D national*
Primary prevention:		*44%*		*72%*
Secondary prevention:		*55%*		*27%*
Other indication:		*1%*		*1%*

Centre: **Tameside Hospital**

Town/City: **Ashton-under-Lyne**

Local Area Team: **Q46. Greater Manchester**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**149**	**35**	**184**
ICD			
CRT-P			
CRT-D			

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**33**	
Physiological pacing implants	**32**	
% physiological pacing for SSS	**97 %**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:		*ICD national*		*CRT-D national*
Primary prevention:		*44%*		*72%*
Secondary prevention:		*55%*		*27%*
Other indication:		*1%*		*1%*

Centre: **Trafford General Hospital**

Town/City: **Manchester**

Local Area Team: **Q46. Greater Manchester**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**39**	**13**	**52**
ICD			
CRT-P			
CRT-D			

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**9**	
Physiological pacing implants	**9**	
% physiological pacing for SSS	**%**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:		*ICD national*		*CRT-D national*
Primary prevention:		*44%*		*72%*
Secondary prevention:		*55%*		*27%*
Other indication:		*1%*		*1%*

Centre: **Wythenshawe Hospital**

Town/City: **Manchester**

Local Area Team: **Q46. Greater Manchester**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**893**	**466**	**1359**
ICD	**138**	**90**	**228**
CRT-P			**113**
CRT-D			**249**

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**167**	
Physiological pacing implants	**133**	
% physiological pacing for SSS	**80 %**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:	72	*ICD national*	35	*CRT-D national*
Primary prevention:	32%	*44%*	71%	*72%*
Secondary prevention:	68%	*55%*	9%	*27%*
Other indication:		*1%*	20%	*1%*

Q47. Lancashire

Centre: **Blackpool Victoria Hospital**

Town/City: **Blackpool**

Local Area Team: **Q47. Lancashire**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**287**	**124**	**411**
ICD	**67**	**7**	**74**
CRT-P			**132**
CRT-D			**116**

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**72**	
Physiological pacing implants	**67**	
% physiological pacing for SSS	**93 %**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:	55	*ICD national*	84	*CRT-D national*
Primary prevention:	16%	*44%*	67%	*72%*
Secondary prevention:	84%	*55%*	33%	*27%*
Other indication:		*1%*		*1%*

Centre: **Royal Blackburn Hospital**

Town/City: **Blackburn**

Local Area Team: **Q47. Lancashire**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**233**	**54**	**287**
ICD			
CRT-P			**21**
CRT-D			

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**76**	
Physiological pacing implants	**55**	
% physiological pacing for SSS	**72 %**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:		*ICD national*		*CRT-D national*
Primary prevention:		*44%*		*72%*
Secondary prevention:		*55%*		*27%*
Other indication:		*1%*		*1%*

Centre: **Royal Preston Hospital**

Town/City: **Preston**

Local Area Team: **Q47. Lancashire**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**282**	**53**	**335**
ICD			
CRT-P			
CRT-D			

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**90**	
Physiological pacing implants	**75**	
% physiological pacing for SSS	**83 %**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:		*ICD national*		*CRT-D national*
Primary prevention:		*44%*		*72%*
Secondary prevention:		*55%*		*27%*
Other indication:		*1%*		*1%*

Q48. Merseyside

Centre: **Aintree University Hospital**

Town/City: **Liverpool**

Local Area Team: **Q48. Merseyside**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**147**	**35**	**182**
ICD			
CRT-P			
CRT-D			

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**44**	
Physiological pacing implants	**40**	
% physiological pacing for SSS	**91 %**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:		*ICD national*		*CRT-D national*
Primary prevention:		*44%*		*72%*
Secondary prevention:		*55%*		*27%*
Other indication:		*1%*		*1%*

Centre: **Alder Hey Hospital**

Town/City: **Liverpool**

Local Area Team: **Q48. Merseyside**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**15**	**8**	**23**
ICD	**1**		
CRT-P			
CRT-D			

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**2**	
Physiological pacing implants	**1**	
% physiological pacing for SSS	**%**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:		*ICD national*		*CRT-D national*
Primary prevention:		*44%*		*72%*
Secondary prevention:		*55%*		*27%*
Other indication:		*1%*		*1%*

Centre: **Liverpool Heart & Chest Hospital**

Town/City: **Liverpool**

Local Area Team: **Q48. Merseyside**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**362**	**190**	**552**
ICD	**153**	**98**	**251**
CRT-P			**154**
CRT-D			**177**

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**51**	
Physiological pacing implants	**44**	
% physiological pacing for SSS	**86 %**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:	108	*ICD national*	67	*CRT-D national*
Primary prevention:	45%	*44%*	81%	*72%*
Secondary prevention:	55%	*55%*	18%	*27%*
Other indication:		*1%*	1%	*1%*

Centre: **Royal Liverpool University Hospital**

Town/City: **Liverpool**

Local Area Team: **Q48. Merseyside**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**140**	**38**	**178**
ICD			
CRT-P			
CRT-D			

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**43**	
Physiological pacing implants	**37**	
% physiological pacing for SSS	**86 %**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:		*ICD national*		*CRT-D national*
Primary prevention:		*44%*		*72%*
Secondary prevention:		*55%*		*27%*
Other indication:		*1%*		*1%*

Centre: **Whiston Hospital**

Town/City: **Prescot**

Local Area Team: **Q48. Merseyside**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**108**	**33**	**141**
ICD	**1**		
CRT-P			**2**
CRT-D			

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**29**	
Physiological pacing implants	**24**	
% physiological pacing for SSS	**83 %**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:		*ICD national*		*CRT-D national*
Primary prevention:		*44%*		*72%*
Secondary prevention:		*55%*		*27%*
Other indication:		*1%*		*1%*

Q49. Cumbria, Northumberland, Tyne and Wear

Centre: **Cumberland Infirmary**

Town/City: **Cumbria**

Local Area Team: **Q49. Cumbria, Northumberland, Tyne and We**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**150**	**38**	**188**
ICD			
CRT-P			
CRT-D			

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**37**	
Physiological pacing implants	**30**	
% physiological pacing for SSS	**81 %**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:		*ICD national*		*CRT-D national*
Primary prevention:		*44%*		*72%*
Secondary prevention:		*55%*		*27%*
Other indication:		*1%*		*1%*

Centre: **Freeman Hospital Newcastle**

Town/City: **Newcastle**

Local Area Team: **Q49. Cumbria, Northumberland, Tyne and We**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**462**	**173**	**635**
ICD	**177**	**124**	**301**
CRT-P			**94**
CRT-D			**173**

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**121**	
Physiological pacing implants	**115**	
% physiological pacing for SSS	**95 %**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:	176	*ICD national*	132	*CRT-D national*
Primary prevention:	57%	*44%*	79%	*72%*
Secondary prevention:	43%	*55%*	21%	*27%*
Other indication:		*1%*		*1%*

Centre: **Queen Elizabeth Hospital Gateshead**

Town/City: **Gateshead**

Local Area Team: **Q49. Cumbria, Northumberland, Tyne and We**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**90**	**14**	**104**
ICD			
CRT-P			
CRT-D			

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**25**	
Physiological pacing implants	**25**	
% physiological pacing for SSS	**100 %**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:		*ICD national*		*CRT-D national*
Primary prevention:		*44%*		*72%*
Secondary prevention:		*55%*		*27%*
Other indication:		*1%*		*1%*

Centre: **SOUTH TYNESIDE DISTRICT HOSPITAL**

Town/City: **South Shields**

Local Area Team: **Q49. Cumbria, Northumberland, Tyne and We**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**93**	**25**	**118**
ICD			
CRT-P			
CRT-D			

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**29**	
Physiological pacing implants	**28**	
% physiological pacing for SSS	**97 %**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:		*ICD national*		*CRT-D national*
Primary prevention:		*44%*		*72%*
Secondary prevention:		*55%*		*27%*
Other indication:		*1%*		*1%*

Centre: **Sunderland Royal Hospital**

Town/City: **Sunderland**

Local Area Team: **Q49. Cumbria, Northumberland, Tyne and We**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**126**	**20**	**146**
ICD			
CRT-P			
CRT-D			

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**31**	
Physiological pacing implants	**28**	
% physiological pacing for SSS	**90 %**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:		*ICD national*		*CRT-D national*
Primary prevention:		*44%*		*72%*
Secondary prevention:		*55%*		*27%*
Other indication:		*1%*		*1%*

Centre: **Wansbeck General Hospital**

Town/City: **Ashington**

Local Area Team: **Q49. Cumbria, Northumberland, Tyne and We**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**182**	**53**	**235**
ICD	**50**	**4**	**54**
CRT-P			
CRT-D			**18**

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**31**	
Physiological pacing implants	**30**	
% physiological pacing for SSS	**97 %**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:	45	*ICD national*	15	*CRT-D national*
Primary prevention:	80%	*44%*	87%	*72%*
Secondary prevention:	20%	*55%*	13%	*27%*
Other indication:		*1%*		*1%*

Centre: **Westmoreland General Hospital**

Town/City: **Kendal**

Local Area Team: **Q49. Cumbria, Northumberland, Tyne and We**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**153**	**74**	**227**
ICD			
CRT-P			**31**
CRT-D			

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**40**	
Physiological pacing implants	**38**	
% physiological pacing for SSS	**95 %**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:		*ICD national*		*CRT-D national*
Primary prevention:		*44%*		*72%*
Secondary prevention:		*55%*		*27%*
Other indication:		*1%*		*1%*

Q50. North Yorkshire and Humber

Centre: **Castle Hill Hospital**

Town/City: **Hull**

Local Area Team: **Q50. North Yorkshire and Humber**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**518**	**103**	**621**
ICD	**68**	**44**	**112**
CRT-P			**69**
CRT-D			**84**

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**120**	
Physiological pacing implants	**103**	
% physiological pacing for SSS	**86 %**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:	48	*ICD national*	45	*CRT-D national*
Primary prevention:	23%	*44%*	49%	*72%*
Secondary prevention:	77%	*55%*	51%	*27%*
Other indication:		*1%*		*1%*

Centre: **Diana, Princess of Wales Hospital Grimsby**

Town/City: **Grimsby**

Local Area Team: **Q50. North Yorkshire and Humber**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**178**	**41**	**219**
ICD			
CRT-P			**15**
CRT-D			

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**68**	
Physiological pacing implants	**61**	
% physiological pacing for SSS	**90 %**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:		*ICD national*		*CRT-D national*
Primary prevention:		*44%*		*72%*
Secondary prevention:		*55%*		*27%*
Other indication:		*1%*		*1%*

Centre: **Harrogate District Hospital**

Town/City: **Harrogate**

Local Area Team: **Q50. North Yorkshire and Humber**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**109**	**37**	**146**
ICD			
CRT-P			**12**
CRT-D			

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**19**	
Physiological pacing implants	**17**	
% physiological pacing for SSS	**89 %**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:		*ICD national*		*CRT-D national*
Primary prevention:		*44%*		*72%*
Secondary prevention:		*55%*		*27%*
Other indication:		*1%*		*1%*

Centre: **Scarborough Hospital**

Town/City: **Scarborough**

Local Area Team: **Q50. North Yorkshire and Humber**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**120**	**32**	**152**
ICD			
CRT-P			
CRT-D			

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**5**	
Physiological pacing implants	**5**	
% physiological pacing for SSS	**%**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:		*ICD national*		*CRT-D national*
Primary prevention:		*44%*		*72%*
Secondary prevention:		*55%*		*27%*
Other indication:		*1%*		*1%*

Centre: **Scunthorpe General Hospital**

Town/City: **Scunthorpe**

Local Area Team: **Q50. North Yorkshire and Humber**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**160**	**15**	**175**
ICD			
CRT-P			
CRT-D			

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**41**	
Physiological pacing implants	**37**	
% physiological pacing for SSS	**90 %**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:		*ICD national*		*CRT-D national*
Primary prevention:		*44%*		*72%*
Secondary prevention:		*55%*		*27%*
Other indication:		*1%*		*1%*

Centre: **Spire Hull and East Riding Hospital**

Town/City: **Hull**

Local Area Team: **Q50. North Yorkshire and Humber**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**4**	**1**	**5**
ICD			
CRT-P			
CRT-D			

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**1**	
Physiological pacing implants	**0**	
% physiological pacing for SSS	**%**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:		*ICD national*		*CRT-D national*
Primary prevention:		*44%*		*72%*
Secondary prevention:		*55%*		*27%*
Other indication:		*1%*		*1%*

Centre: **The York Hospital**

Town/City: **York**

Local Area Team: **Q50. North Yorkshire and Humber**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**225**	**57**	**282**
ICD			
CRT-P			
CRT-D			

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**57**	
Physiological pacing implants	**42**	
% physiological pacing for SSS	**74 %**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:		*ICD national*		*CRT-D national*
Primary prevention:		*44%*		*72%*
Secondary prevention:		*55%*		*27%*
Other indication:		*1%*		*1%*

Q51. South Yorkshire and Bassetlaw

Centre: **Barnsley Hospital**

Town/City: **Barnsley**

Local Area Team: **Q51. South Yorkshire and Bassetlaw**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**103**	**10**	**113**
ICD			
CRT-P			
CRT-D			

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**28**	
Physiological pacing implants	**21**	
% physiological pacing for SSS	**75 %**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:		*ICD national*		*CRT-D national*
Primary prevention:		*44%*		*72%*
Secondary prevention:		*55%*		*27%*
Other indication:		*1%*		*1%*

Centre: **Doncaster Royal Infirmary**

Town/City: **Doncaster**

Local Area Team: **Q51. South Yorkshire and Bassetlaw**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**201**	**62**	**263**
ICD			
CRT-P			
CRT-D			

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**43**	
Physiological pacing implants	**37**	
% physiological pacing for SSS	**86 %**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:		*ICD national*		*CRT-D national*
Primary prevention:		*44%*		*72%*
Secondary prevention:		*55%*		*27%*
Other indication:		*1%*		*1%*

Centre: **Northern General Hospital Sheffield**

Town/City: **Sheffield**

Local Area Team: **Q51. South Yorkshire and Bassetlaw**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**483**	**67**	**550**
ICD	**95**	**10**	**105**
CRT-P			**44**
CRT-D			**88**

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome

Physiological pacing implants

% physiological pacing for SSS **%** UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:	73	*ICD national*	61	*CRT-D national*
Primary prevention:	41%	*44%*	75%	*72%*
Secondary prevention:	59%	*55%*	25%	*27%*
Other indication:		*1%*		*1%*

Centre: **Rotherham Hospital**

Town/City: **Rotherham**

Local Area Team: **Q51. South Yorkshire and Bassetlaw**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**137**	**16**	**153**
ICD			
CRT-P			
CRT-D			

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**54**	
Physiological pacing implants	**47**	
% physiological pacing for SSS	**87 %**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:		*ICD national*		*CRT-D national*
Primary prevention:		*44%*		*72%*
Secondary prevention:		*55%*		*27%*
Other indication:		*1%*		*1%*

Q52. West Yorkshire

Centre: **Airedale General Hospital**

Town/City: **Keighley**

Local Area Team: **Q52. West Yorkshire**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**109**	**30**	**139**
ICD	**10**	**1**	**11**
CRT-P			**27**
CRT-D			**23**

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**34**	
Physiological pacing implants	**31**	
% physiological pacing for SSS	**91 %**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:	10	*ICD national*	22	*CRT-D national*
Primary prevention:	20%	*44%*	73%	*72%*
Secondary prevention:	80%	*55%*	27%	*27%*
Other indication:		*1%*		*1%*

Centre: **Bradford Royal Infirmary**

Town/City: **Bradford**

Local Area Team: **Q52. West Yorkshire**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**171**	**41**	**212**
ICD	**16**	**4**	**20**
CRT-P			**27**
CRT-D			**19**

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**68**	
Physiological pacing implants	**65**	
% physiological pacing for SSS	**96 %**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:	17	*ICD national*	16	*CRT-D national*
Primary prevention:	53%	*44%*	88%	*72%*
Secondary prevention:	47%	*55%*	13%	*27%*
Other indication:		*1%*		*1%*

Centre: **Calderdale Royal Hospital**

Town/City: **Halifax**

Local Area Team: **Q52. West Yorkshire**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**106**	**35**	**141**
ICD	**7**	**9**	**16**
CRT-P			**2**
CRT-D			**4**

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**21**	
Physiological pacing implants	**21**	
% physiological pacing for SSS	**100 %**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:	7	*ICD national*		*CRT-D national*
Primary prevention:	29%	*44%*		*72%*
Secondary prevention:	71%	*55%*		*27%*
Other indication:		*1%*		*1%*

Centre: **Dewsbury District Hospital**

Town/City: **Dewsbury**

Local Area Team: **Q52. West Yorkshire**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**98**	**48**	**146**
ICD		**1**	
CRT-P			
CRT-D			

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**21**	
Physiological pacing implants	**20**	
% physiological pacing for SSS	**95 %**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:		*ICD national*		*CRT-D national*
Primary prevention:		*44%*		*72%*
Secondary prevention:		*55%*		*27%*
Other indication:		*1%*		*1%*

Centre: **Huddersfield Royal Hospital**

Town/City: **Huddersfield**

Local Area Team: **Q52. West Yorkshire**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**84**	**38**	**122**
ICD	**11**	**2**	**13**
CRT-P			**15**
CRT-D			**12**

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**25**	
Physiological pacing implants	**22**	
% physiological pacing for SSS	**88 %**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:	10	*ICD national*	6	*CRT-D national*
Primary prevention:	20%	*44%*	50%	*72%*
Secondary prevention:	80%	*55%*	50%	*27%*
Other indication:		*1%*		*1%*

Centre: **Leeds General Infirmary**

Town/City: **Leeds**

Local Area Team: **Q52. West Yorkshire**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**429**	**168**	**597**
ICD	**85**	**46**	**131**
CRT-P			**139**
CRT-D			**116**

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**148**	
Physiological pacing implants	**132**	
% physiological pacing for SSS	**89 %**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:	86	*ICD national*	76	*CRT-D national*
Primary prevention:	35%	*44%*	68%	*72%*
Secondary prevention:	65%	*55%*	32%	*27%*
Other indication:		*1%*		*1%*

Centre: **Pinderfields General Hospital**

Town/City: **Wakefield**

Local Area Team: **Q52. West Yorkshire**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**121**	**15**	**136**
ICD	**15**	**12**	**27**
CRT-P			**64**
CRT-D			**46**

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**48**	
Physiological pacing implants	**43**	
% physiological pacing for SSS	**90 %**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:	34	*ICD national*	21	*CRT-D national*
Primary prevention:	68%	*44%*	81%	*72%*
Secondary prevention:	32%	*55%*	19%	*27%*
Other indication:		*1%*		*1%*

Centre: **Spire Leeds Hospital**

Town/City: **Leeds**

Local Area Team: **Q52. West Yorkshire**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**6**	**4**	**10**
ICD			
CRT-P			
CRT-D			**2**

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**1**	
Physiological pacing implants	**1**	
% physiological pacing for SSS	**%**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:		*ICD national*		*CRT-D national*
Primary prevention:		*44%*		*72%*
Secondary prevention:		*55%*		*27%*
Other indication:		*1%*		*1%*

Q53. Arden, Herefordshire and Worcestershire

Centre: **BMI The Meriden Hospital**

Town/City: **Coventry**

Local Area Team: **Q53. Arden, Herefordshire and Worcestershir**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**4**		
ICD			
CRT-P			
CRT-D			

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome

Physiological pacing implants

% physiological pacing for SSS **%** UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:		*ICD national*		*CRT-D national*
Primary prevention:		*44%*		*72%*
Secondary prevention:		*55%*		*27%*
Other indication:		*1%*		*1%*

Centre: **County Hospital Hereford**

Town/City: **Hereford**

Local Area Team: **Q53. Arden, Herefordshire and Worcestershir**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**161**	**35**	**196**
ICD	**19**	**9**	**28**
CRT-P			**13**
CRT-D			**40**

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**31**	
Physiological pacing implants	**30**	
% physiological pacing for SSS	**97 %**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:		*ICD national*		*CRT-D national*
Primary prevention:		*44%*		*72%*
Secondary prevention:		*55%*		*27%*
Other indication:		*1%*		*1%*

Centre: **George Eliot Hospital**

Town/City: **Nuneaton**

Local Area Team: **Q53. Arden, Herefordshire and Worcestershir**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**64**	**16**	**80**
ICD			
CRT-P			
CRT-D			

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**21**	
Physiological pacing implants	**18**	
% physiological pacing for SSS	**86 %**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:		*ICD national*		*CRT-D national*
Primary prevention:		*44%*		*72%*
Secondary prevention:		*55%*		*27%*
Other indication:		*1%*		*1%*

Centre: **University Hospital Coventry**

Town/City: **Coventry**

Local Area Team: **Q53. Arden, Herefordshire and Worcestershir**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**198**	**62**	**260**
ICD	**42**	**8**	**50**
CRT-P			**62**
CRT-D			**62**

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**47**	
Physiological pacing implants	**41**	
% physiological pacing for SSS	**87 %**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:	35	*ICD national*	36	*CRT-D national*
Primary prevention:	29%	*44%*	58%	*72%*
Secondary prevention:	71%	*55%*	42%	*27%*
Other indication:		*1%*		*1%*

Centre: **Warwick Hospital**

Town/City: **Warwick**

Local Area Team: **Q53. Arden, Herefordshire and Worcestershir**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**145**	**50**	**195**
ICD	**4**	**1**	**5**
CRT-P			
CRT-D			**6**

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**29**	
Physiological pacing implants	**21**	
% physiological pacing for SSS	**72 %**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:		*ICD national*		*CRT-D national*
Primary prevention:		*44%*		*72%*
Secondary prevention:		*55%*		*27%*
Other indication:		*1%*		*1%*

Centre: **Worcestershire Royal Hospital**

Town/City: **Worcester**

Local Area Team: **Q53. Arden, Herefordshire and Worcestershir**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**252**	**60**	**312**
ICD	**21**	**5**	**26**
CRT-P			**31**
CRT-D			**21**

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**56**	
Physiological pacing implants	**54**	
% physiological pacing for SSS	**96 %**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:	17	*ICD national*	12	*CRT-D national*
Primary prevention:	6%	*44%*	67%	*72%*
Secondary prevention:	94%	*55%*	33%	*27%*
Other indication:		*1%*		*1%*

Q54. Birmingham and The Black Country

Centre: **Birmingham Childrens Hospital**

Town/City: **Birmingham**

Local Area Team: **Q54. Birmingham and The Black Country**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**17**	**11**	**28**
ICD	**2**		
CRT-P			**2**
CRT-D			

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**1**	
Physiological pacing implants	**1**	
% physiological pacing for SSS	**%**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:		*ICD national*		*CRT-D national*
Primary prevention:		*44%*		*72%*
Secondary prevention:		*55%*		*27%*
Other indication:		*1%*		*1%*

Centre: **Birmingham City Hospital**

Town/City: **Birmingham**

Local Area Team: **Q54. Birmingham and The Black Country**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**88**	**43**	**131**
ICD	**2**	**2**	**4**
CRT-P			**15**
CRT-D			**9**

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**26**	
Physiological pacing implants	**19**	
% physiological pacing for SSS	**73 %**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:		*ICD national*	6	*CRT-D national*
Primary prevention:		*44%*	67%	*72%*
Secondary prevention:		*55%*	33%	*27%*
Other indication:		*1%*		*1%*

Centre: **BMI The Priory Hospital Birmingham**

Town/City: **Edgbaston**

Local Area Team: **Q54. Birmingham and The Black Country**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**14**	**3**	**17**
ICD	**1**		
CRT-P			
CRT-D			

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**1**	
Physiological pacing implants	**1**	
% physiological pacing for SSS	**%**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:		*ICD national*		*CRT-D national*
Primary prevention:		*44%*		*72%*
Secondary prevention:		*55%*		*27%*
Other indication:		*1%*		*1%*

Centre: **Good Hope Hospital**

Town/City: **Sutton Coldfield**

Local Area Team: **Q54. Birmingham and The Black Country**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**230**	**60**	**290**
ICD	**42**	**9**	**51**
CRT-P			**60**
CRT-D			**47**

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**63**	
Physiological pacing implants	**54**	
% physiological pacing for SSS	**86 %**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:	36	*ICD national*	22	*CRT-D national*
Primary prevention:	28%	*44%*	86%	*72%*
Secondary prevention:	72%	*55%*	14%	*27%*
Other indication:		*1%*		*1%*

Centre: **New Cross Hospital (Wolverhampton Heart Ce**

Town/City: **Wolverhampton**

Local Area Team: **Q54. Birmingham and The Black Country**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**219**	**41**	**260**
ICD	**52**	**14**	**66**
CRT-P			**20**
CRT-D			**29**

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**60**	
Physiological pacing implants	**57**	
% physiological pacing for SSS	**95 %**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:	54	*ICD national*	20	*CRT-D national*
Primary prevention:	28%	*44%*	65%	*72%*
Secondary prevention:	72%	*55%*	35%	*27%*
Other indication:		*1%*		*1%*

Centre: **Queen Elizabeth Hospital Birmingham**

Town/City: **Birmingham**

Local Area Team: **Q54. Birmingham and The Black Country**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**275**	**76**	**351**
ICD	**58**	**39**	**97**
CRT-P			**101**
CRT-D			**102**

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**40**	
Physiological pacing implants	**34**	
% physiological pacing for SSS	**85 %**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:	42	*ICD national*	42	*CRT-D national*
Primary prevention:	38%	*44%*	71%	*72%*
Secondary prevention:	62%	*55%*	29%	*27%*
Other indication:		*1%*		*1%*

Centre: **Russells Hall Hospital**

Town/City: **Dudley**

Local Area Team: **Q54. Birmingham and The Black Country**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**131**	**84**	**215**
ICD	**56**	**5**	**61**
CRT-P			**8**
CRT-D			**33**

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**32**	
Physiological pacing implants	**22**	
% physiological pacing for SSS	**69 %**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:	54	*ICD national*	22	*CRT-D national*
Primary prevention:	76%	*44%*	95%	*72%*
Secondary prevention:	24%	*55%*	5%	*27%*
Other indication:		*1%*		*1%*

Centre: **Sandwell General Hospital**

Town/City: **West Bromwich**

Local Area Team: **Q54. Birmingham and The Black Country**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**108**	**23**	**131**
ICD	**9**	**7**	**16**
CRT-P			**12**
CRT-D			**11**

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**28**	
Physiological pacing implants	**26**	
% physiological pacing for SSS	**93 %**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:	9	*ICD national*	7	*CRT-D national*
Primary prevention:	11%	*44%*	71%	*72%*
Secondary prevention:	89%	*55%*	29%	*27%*
Other indication:		*1%*		*1%*

Centre: **Solihull Hospital**

Town/City: **Solihull**

Local Area Team: **Q54. Birmingham and The Black Country**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**213**	**57**	**270**
ICD			
CRT-P			
CRT-D			

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**57**	
Physiological pacing implants	**40**	
% physiological pacing for SSS	**70 %**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:		*ICD national*		*CRT-D national*
Primary prevention:		*44%*		*72%*
Secondary prevention:		*55%*		*27%*
Other indication:		*1%*		*1%*

Centre: **Walsall Manor Hospital**

Town/City: **Walsall**

Local Area Team: **Q54. Birmingham and The Black Country**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**166**	**47**	**213**
ICD	**9**	**3**	**12**
CRT-P			**18**
CRT-D			**35**

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**14**	
Physiological pacing implants	**13**	
% physiological pacing for SSS	**93 %**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:	7	*ICD national*	29	*CRT-D national*
Primary prevention:	14%	*44%*	93%	*72%*
Secondary prevention:	86%	*55%*	7%	*27%*
Other indication:		*1%*		*1%*

Q55. Derbyshire and Nottinghamshire

Centre: **Chesterfield Royal Hospital**

Town/City: **Chesterfield**

Local Area Team: **Q55. Derbyshire and Nottinghamshire**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**107**	**19**	**126**
ICD			
CRT-P			
CRT-D			

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**29**	
Physiological pacing implants	**28**	
% physiological pacing for SSS	**97 %**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:		*ICD national*		*CRT-D national*
Primary prevention:		*44%*		*72%*
Secondary prevention:		*55%*		*27%*
Other indication:		*1%*		*1%*

Centre: **Kings Mill Hospital**

Town/City: **Sutton-in-Ashfield**

Local Area Team: **Q55. Derbyshire and Nottinghamshire**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**141**	**27**	**168**
ICD	**18**		
CRT-P			**21**
CRT-D			

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**39**	
Physiological pacing implants	**30**	
% physiological pacing for SSS	**77 %**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:	14	*ICD national*	30	*CRT-D national*
Primary prevention:	43%	*44%*	90%	*72%*
Secondary prevention:	57%	*55%*	10%	*27%*
Other indication:		*1%*		*1%*

Centre: **Nottingham City Hospital**

Town/City: **Nottingham**

Local Area Team: **Q55. Derbyshire and Nottinghamshire**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**394**	**126**	**520**
ICD	**76**	**25**	**101**
CRT-P			**38**
CRT-D			**58**

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**74**	
Physiological pacing implants	**63**	
% physiological pacing for SSS	**85 %**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:	74	*ICD national*	46	*CRT-D national*
Primary prevention:	34%	*44%*	70%	*72%*
Secondary prevention:	66%	*55%*	30%	*27%*
Other indication:		*1%*		*1%*

Centre: **Royal Derby Hospital**

Town/City: **Derby**

Local Area Team: **Q55. Derbyshire and Nottinghamshire**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**141**	**33**	**174**
ICD	**4**	**5**	**9**
CRT-P			
CRT-D			

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**22**	
Physiological pacing implants	**8**	
% physiological pacing for SSS	**36 %**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:		*ICD national*		*CRT-D national*
Primary prevention:		*44%*		*72%*
Secondary prevention:		*55%*		*27%*
Other indication:		*1%*		*1%*

Q56. East Anglia

Centre: **Addenbrookes Hospital**

Town/City: **Cambridge**

Local Area Team: **Q56. East Anglia**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**225**	**8**	**233**
ICD	**11**	**1**	**12**
CRT-P			**34**
CRT-D			**28**

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**81**	
Physiological pacing implants	**78**	
% physiological pacing for SSS	**96 %**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:	9	*ICD national*	23	*CRT-D national*
Primary prevention:	44%	*44%*	78%	*72%*
Secondary prevention:	56%	*55%*	22%	*27%*
Other indication:		*1%*		*1%*

Centre: **Colchester General Hospital**

Town/City: **Colchester**

Local Area Team: **Q56. East Anglia**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**233**	**75**	**308**
ICD	**11**	**1**	**12**
CRT-P			
CRT-D			

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**63**	
Physiological pacing implants	**48**	
% physiological pacing for SSS	**76 %**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:		*ICD national*		*CRT-D national*
Primary prevention:		*44%*		*72%*
Secondary prevention:		*55%*		*27%*
Other indication:		*1%*		*1%*

Centre: **Norfolk & Norwich University Hospital**

Town/City: **Norwich**

Local Area Team: **Q56. East Anglia**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**617**	**102**	**719**
ICD	**47**	**11**	**58**
CRT-P			**75**
CRT-D			**72**

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**201**	
Physiological pacing implants	**186**	
% physiological pacing for SSS	**93 %**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:	47	*ICD national*	66	*CRT-D national*
Primary prevention:	17%	*44%*	71%	*72%*
Secondary prevention:	83%	*55%*	29%	*27%*
Other indication:		*1%*		*1%*

Centre: **Papworth Hospital**

Town/City: **Cambridge**

Local Area Team: **Q56. East Anglia**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**712**	**151**	**863**
ICD	**81**	**32**	**113**
CRT-P			**21**
CRT-D			**53**

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**158**	
Physiological pacing implants	**147**	
% physiological pacing for SSS	**93 %**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:		*ICD national*		*CRT-D national*
Primary prevention:		*44%*		*72%*
Secondary prevention:		*55%*		*27%*
Other indication:		*1%*		*1%*

Centre: **Peterborough City Hospital**

Town/City: **Peterborough**

Local Area Team: **Q56. East Anglia**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**226**	**31**	**257**
ICD	**1**		
CRT-P			
CRT-D			

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**74**	
Physiological pacing implants	**72**	
% physiological pacing for SSS	**97 %**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:		*ICD national*		*CRT-D national*
Primary prevention:		*44%*		*72%*
Secondary prevention:		*55%*		*27%*
Other indication:		*1%*		*1%*

Centre: **The Ipswich Hospital**

Town/City: **Ipswich**

Local Area Team: **Q56. East Anglia**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**308**	**62**	**370**
ICD			
CRT-P			
CRT-D			

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**88**	
Physiological pacing implants	**83**	
% physiological pacing for SSS	**94 %**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:		*ICD national*		*CRT-D national*
Primary prevention:		*44%*		*72%*
Secondary prevention:		*55%*		*27%*
Other indication:		*1%*		*1%*

Q57. Essex

Centre: **Basildon Hospital**

Town/City: **Basildon**

Local Area Team: **Q57. Essex**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**264**	**49**	**313**
ICD	**56**	**22**	**78**
CRT-P			**42**
CRT-D			**87**

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**40**	
Physiological pacing implants	**38**	
% physiological pacing for SSS	**95 %**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:	56	*ICD national*	67	*CRT-D national*
Primary prevention:	43%	*44%*	84%	*72%*
Secondary prevention:	57%	*55%*	16%	*27%*
Other indication:		*1%*		*1%*

Centre: **Broomfield Hospital**

Town/City: **Chelmsford**

Local Area Team: **Q57. Essex**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**117**	**8**	**125**
ICD			
CRT-P			
CRT-D			

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**23**	
Physiological pacing implants	**20**	
% physiological pacing for SSS	**87 %**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:		*ICD national*		*CRT-D national*
Primary prevention:		*44%*		*72%*
Secondary prevention:		*55%*		*27%*
Other indication:		*1%*		*1%*

Centre: **Princess Alexandra Hospital Harlow**

Town/City: **Harlow**

Local Area Team: **Q57. Essex**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**94**	**20**	**114**
ICD			
CRT-P			
CRT-D			

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**7**	
Physiological pacing implants	**5**	
% physiological pacing for SSS	**%**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:		*ICD national*		*CRT-D national*
Primary prevention:		*44%*		*72%*
Secondary prevention:		*55%*		*27%*
Other indication:		*1%*		*1%*

Centre: **Southend University Hospital**

Town/City: **Southend**

Local Area Team: **Q57. Essex**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**241**	**69**	**310**
ICD	**25**	**2**	**27**
CRT-P			
CRT-D			

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**51**	
Physiological pacing implants	**44**	
% physiological pacing for SSS	**86 %**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:	26	*ICD national*		*CRT-D national*
Primary prevention:	65%	*44%*		*72%*
Secondary prevention:	35%	*55%*		*27%*
Other indication:		*1%*		*1%*

Q58. Hertfordshire and The South Midlands

Centre: **Bedford Hospital**

Town/City: **Bedford**

Local Area Team: **Q58. Hertfordshire and The South Midlands**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**105**	**18**	**123**
ICD			
CRT-P			
CRT-D			

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**32**	
Physiological pacing implants	**26**	
% physiological pacing for SSS	**81 %**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:		*ICD national*		*CRT-D national*
Primary prevention:		*44%*		*72%*
Secondary prevention:		*55%*		*27%*
Other indication:		*1%*		*1%*

Centre: **Kettering General Hospital**

Town/City: **Kettering**

Local Area Team: **Q58. Hertfordshire and The South Midlands**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**197**	**15**	**212**
ICD	**36**	**4**	**40**
CRT-P			**39**
CRT-D			**34**

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**48**	
Physiological pacing implants	**43**	
% physiological pacing for SSS	**90 %**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:	37	*ICD national*	31	*CRT-D national*
Primary prevention:	51%	*44%*	77%	*72%*
Secondary prevention:	49%	*55%*	23%	*27%*
Other indication:		*1%*		*1%*

Centre: **Lister Hospital**

Town/City: **Stevenage**

Local Area Team: **Q58. Hertfordshire and The South Midlands**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**203**	**21**	**224**
ICD			
CRT-P			
CRT-D			

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**44**	
Physiological pacing implants	**42**	
% physiological pacing for SSS	**95 %**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:		*ICD national*		*CRT-D national*
Primary prevention:		*44%*		*72%*
Secondary prevention:		*55%*		*27%*
Other indication:		*1%*		*1%*

Centre: **Luton & Dunstable Hospital**

Town/City: **Luton**

Local Area Team: **Q58. Hertfordshire and The South Midlands**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**101**	**5**	**106**
ICD			
CRT-P			
CRT-D			

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**22**	
Physiological pacing implants	**22**	
% physiological pacing for SSS	**100 %**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:		*ICD national*		*CRT-D national*
Primary prevention:		*44%*		*72%*
Secondary prevention:		*55%*		*27%*
Other indication:		*1%*		*1%*

Centre: **Milton Keynes Hospital**

Town/City: **Milton Keynes**

Local Area Team: **Q58. Hertfordshire and The South Midlands**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**94**	**40**	**134**
ICD	**24**	**3**	**27**
CRT-P			**9**
CRT-D			**24**

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**9**	
Physiological pacing implants	**8**	
% physiological pacing for SSS	**%**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:	15	*ICD national*	12	*CRT-D national*
Primary prevention:	47%	*44%*	83%	*72%*
Secondary prevention:	53%	*55%*	17%	*27%*
Other indication:		*1%*		*1%*

Centre: **Northampton General Hospital**

Town/City: **Northampton**

Local Area Team: **Q58. Hertfordshire and The South Midlands**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**260**	**48**	**308**
ICD	**28**	**13**	**41**
CRT-P			**15**
CRT-D			**36**

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**68**	
Physiological pacing implants	**48**	
% physiological pacing for SSS	**71 %**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:	23	*ICD national*	30	*CRT-D national*
Primary prevention:	52%	*44%*	83%	*72%*
Secondary prevention:	48%	*55%*	17%	*27%*
Other indication:		*1%*		*1%*

Centre: **Watford General Hospital**

Town/City: **Watford**

Local Area Team: **Q58. Hertfordshire and The South Midlands**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**236**	**105**	**341**
ICD	**26**	**1**	**27**
CRT-P			**14**
CRT-D			**20**

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**56**	
Physiological pacing implants	**52**	
% physiological pacing for SSS	**93 %**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:	20	*ICD national*	6	*CRT-D national*
Primary prevention:	80%	*44%*	100%	*72%*
Secondary prevention:	20%	*55%*		*27%*
Other indication:		*1%*		*1%*

Q59. Leicestershire and Lincolnshire

Centre: **Glenfield Hospital**

Town/City: **Leicester**

Local Area Team: **Q59. Leicestershire and Lincolnshire**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**646**	**131**	**777**
ICD	**115**	**64**	**179**
CRT-P			**77**
CRT-D			**95**

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**228**	
Physiological pacing implants	**202**	
% physiological pacing for SSS	**89 %**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:	115	*ICD national*	58	*CRT-D national*
Primary prevention:	51%	*44%*	79%	*72%*
Secondary prevention:	49%	*55%*	21%	*27%*
Other indication:		*1%*		*1%*

Centre: **Lincoln County Hospital**

Town/City: **Lincoln**

Local Area Team: **Q59. Leicestershire and Lincolnshire**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**185**	**31**	**216**
ICD			
CRT-P			
CRT-D			

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**32**	
Physiological pacing implants	**27**	
% physiological pacing for SSS	**84 %**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:		*ICD national*		*CRT-D national*
Primary prevention:		*44%*		*72%*
Secondary prevention:		*55%*		*27%*
Other indication:		*1%*		*1%*

Centre: **Pilgrim Hospital**

Town/City: **Boston**

Local Area Team: **Q59. Leicestershire and Lincolnshire**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**105**	**16**	**121**
ICD	**21**	**3**	**24**
CRT-P			**12**
CRT-D			**15**

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**19**	
Physiological pacing implants	**18**	
% physiological pacing for SSS	**95 %**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:		*ICD national*		*CRT-D national*
Primary prevention:		*44%*		*72%*
Secondary prevention:		*55%*		*27%*
Other indication:		*1%*		*1%*

Centre: **Spire Leicester Hospital**

Town/City: **Leicester**

Local Area Team: **Q59. Leicestershire and Lincolnshire**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**7**	**5**	**12**
ICD	**3**		
CRT-P			
CRT-D			

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**3**	
Physiological pacing implants	**3**	
% physiological pacing for SSS	**%**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:		*ICD national*		*CRT-D national*
Primary prevention:		*44%*		*72%*
Secondary prevention:		*55%*		*27%*
Other indication:		*1%*		*1%*

Q60. Shropshire and Staffordshire

Centre: **Princess Royal Hospital Telford**

Town/City: **Telford**

Local Area Team: **Q60. Shropshire and Staffordshire**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**203**	**72**	**275**
ICD	**25**	**3**	**28**
CRT-P			**13**
CRT-D			**18**

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**32**	
Physiological pacing implants	**28**	
% physiological pacing for SSS	**88 %**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:	13	*ICD national*	12	*CRT-D national*
Primary prevention:	38%	*44%*	67%	*72%*
Secondary prevention:	62%	*55%*	33%	*27%*
Other indication:		*1%*		*1%*

Centre: **Queens Hospital Burton**

Town/City: **Burton Upon Trent**

Local Area Team: **Q60. Shropshire and Staffordshire**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**116**	**16**	**132**
ICD			
CRT-P			
CRT-D			

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**12**	
Physiological pacing implants	**7**	
% physiological pacing for SSS	**58 %**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:		*ICD national*		*CRT-D national*
Primary prevention:		*44%*		*72%*
Secondary prevention:		*55%*		*27%*
Other indication:		*1%*		*1%*

Centre: **Royal Shrewsbury Hospital**

Town/City: **Shrewsbury**

Local Area Team: **Q60. Shropshire and Staffordshire**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**1**		
ICD			
CRT-P			
CRT-D			

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome

Physiological pacing implants

% physiological pacing for SSS **%** UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:		*ICD national*		*CRT-D national*
Primary prevention:		*44%*		*72%*
Secondary prevention:		*55%*		*27%*
Other indication:		*1%*		*1%*

Centre: **Stafford Hospital**

Town/City: **Stafford**

Local Area Team: **Q60. Shropshire and Staffordshire**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**80**	**30**	**110**
ICD			
CRT-P			
CRT-D			

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**19**	
Physiological pacing implants	**14**	
% physiological pacing for SSS	**74 %**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:		*ICD national*		*CRT-D national*
Primary prevention:		*44%*		*72%*
Secondary prevention:		*55%*		*27%*
Other indication:		*1%*		*1%*

Centre: **University Hospital of North Staffs**

Town/City: **Stoke-on-Trent**

Local Area Team: **Q60. Shropshire and Staffordshire**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**484**	**45**	**529**
ICD	**68**	**8**	**76**
CRT-P			**59**
CRT-D			**103**

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**156**	
Physiological pacing implants	**134**	
% physiological pacing for SSS	**86 %**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:	51	*ICD national*	66	*CRT-D national*
Primary prevention:	31%	*44%*	82%	*72%*
Secondary prevention:	69%	*55%*	18%	*27%*
Other indication:		*1%*		*1%*

Q64. Bath, Gloucestershire, Swindon and Wiltshire

Centre: **Cheltenham General Hospital**

Town/City: **Cheltenham**

Local Area Team: **Q64. Bath, Gloucestershire, Swindon and Wilt**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**328**	**109**	**437**
ICD	**45**	**16**	**61**
CRT-P			**29**
CRT-D			**45**

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**79**	
Physiological pacing implants	**70**	
% physiological pacing for SSS	**89 %**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:	25	*ICD national*	15	*CRT-D national*
Primary prevention:	44%	*44%*	67%	*72%*
Secondary prevention:	56%	*55%*	33%	*27%*
Other indication:		*1%*		*1%*

Centre: **Royal United Hospital Bath**

Town/City: **Bath**

Local Area Team: **Q64. Bath, Gloucestershire, Swindon and Wilt**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**227**	**62**	**289**
ICD			
CRT-P			
CRT-D			

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**69**	
Physiological pacing implants	**55**	
% physiological pacing for SSS	**80 %**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:		*ICD national*		*CRT-D national*
Primary prevention:		*44%*		*72%*
Secondary prevention:		*55%*		*27%*
Other indication:		*1%*		*1%*

Centre: **Salisbury District Hospital**

Town/City: **Salisbury**

Local Area Team: **Q64. Bath, Gloucestershire, Swindon and Wilt**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**123**	**29**	**152**
ICD	**6**	**5**	**11**
CRT-P			**12**
CRT-D			**11**

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**31**	
Physiological pacing implants	**27**	
% physiological pacing for SSS	**87 %**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:		*ICD national*		*CRT-D national*
Primary prevention:		*44%*		*72%*
Secondary prevention:		*55%*		*27%*
Other indication:		*1%*		*1%*

Centre: **The Great Western Hospital**

Town/City: **Swindon**

Local Area Team: **Q64. Bath, Gloucestershire, Swindon and Wilt**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**213**	**46**	**259**
ICD	**29**	**5**	**34**
CRT-P			**31**
CRT-D			**31**

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**53**	
Physiological pacing implants	**50**	
% physiological pacing for SSS	**94 %**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:	30	*ICD national*	28	*CRT-D national*
Primary prevention:	47%	*44%*	75%	*72%*
Secondary prevention:	53%	*55%*	25%	*27%*
Other indication:		*1%*		*1%*

Q65. Bristol, North Somerset, Somerset and South G

Centre: **Frenchay Hospital**

Town/City: **Bristol**

Local Area Team: **Q65. Bristol, North Somerset, Somerset and S**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**97**	**43**	**140**
ICD	**7**		
CRT-P			
CRT-D			

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**14**	
Physiological pacing implants	**13**	
% physiological pacing for SSS	**93 %**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:	7	*ICD national*		*CRT-D national*
Primary prevention:	43%	*44%*		*72%*
Secondary prevention:	57%	*55%*		*27%*
Other indication:		*1%*		*1%*

Centre: **Weston General Hospital**

Town/City: **Weston Super Mare**

Local Area Team: **Q65. Bristol, North Somerset, Somerset and S**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**33**	**13**	**46**
ICD			
CRT-P			
CRT-D			

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome

Physiological pacing implants

% physiological pacing for SSS **%** UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:		*ICD national*		*CRT-D national*
Primary prevention:		*44%*		*72%*
Secondary prevention:		*55%*		*27%*
Other indication:		*1%*		*1%*

Centre: **Yeovil District Hospital**

Town/City: **Yeovil**

Local Area Team: **Q65. Bristol, North Somerset, Somerset and S**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**126**	**51**	**177**
ICD			
CRT-P			
CRT-D			

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome

Physiological pacing implants

% physiological pacing for SSS **%** UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:		*ICD national*		*CRT-D national*
Primary prevention:		*44%*		*72%*
Secondary prevention:		*55%*		*27%*
Other indication:		*1%*		*1%*

Q65. Bristol, North Somerset, Somerset and South Gloucestershire

Centre: **Bristol Royal Hospital for Children**

Town/City: **Bristol**

Local Area Team: **Q65. Bristol, North Somerset, Somerset and S**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**22**	**12**	**34**
ICD	**3**	**1**	**4**
CRT-P			
CRT-D			

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**1**	
Physiological pacing implants	**0**	
% physiological pacing for SSS	**%**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:		*ICD national*		*CRT-D national*
Primary prevention:		*44%*		*72%*
Secondary prevention:		*55%*		*27%*
Other indication:		*1%*		*1%*

Centre: **Bristol Royal Infirmary**

Town/City: **Bristol**

Local Area Team: **Q65. Bristol, North Somerset, Somerset and S**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**301**	**127**	**428**
ICD	**74**	**31**	**105**
CRT-P			**64**
CRT-D			**110**

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**81**	
Physiological pacing implants	**71**	
% physiological pacing for SSS	**88 %**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:	48	*ICD national*	66	*CRT-D national*
Primary prevention:	44%	*44%*	79%	*72%*
Secondary prevention:	56%	*55%*	21%	*27%*
Other indication:		*1%*		*1%*

Centre: **Musgrove Park Hospital**

Town/City: **Taunton**

Local Area Team: **Q65. Bristol, North Somerset, Somerset and S**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**230**	**95**	**325**
ICD	**27**	**25**	**52**
CRT-P			**11**
CRT-D			**28**

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**58**	
Physiological pacing implants	**48**	
% physiological pacing for SSS	**83 %**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:		*ICD national*		*CRT-D national*
Primary prevention:		*44%*		*72%*
Secondary prevention:		*55%*		*27%*
Other indication:		*1%*		*1%*

Centre: **Spire Bristol Hospital**

Town/City: **Bristol**

Local Area Team: **Q65. Bristol, North Somerset, Somerset and S**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**7**	**4**	**11**
ICD	**3**		
CRT-P			
CRT-D			

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome

Physiological pacing implants

% physiological pacing for SSS **%** UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:		*ICD national*		*CRT-D national*
Primary prevention:		*44%*		*72%*
Secondary prevention:		*55%*		*27%*
Other indication:		*1%*		*1%*

Q66. Devon, Cornwall and Isles Of Scilly

Centre: **Derriford Hospital**

Town/City: **Plymouth**

Local Area Team: **Q66. Devon, Cornwall and Isles Of Scilly**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**270**	**136**	**406**
ICD	**31**	**14**	**45**
CRT-P			**42**
CRT-D			**34**

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**72**	
Physiological pacing implants	**68**	
% physiological pacing for SSS	**94 %**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:	30	*ICD national*	23	*CRT-D national*
Primary prevention:	17%	*44%*	78%	*72%*
Secondary prevention:	83%	*55%*	22%	*27%*
Other indication:		*1%*		*1%*

Centre: **North Devon District Hospital**

Town/City: **Barnstable**

Local Area Team: **Q66. Devon, Cornwall and Isles Of Scilly**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**125**	**18**	**143**
ICD	**17**	**3**	**20**
CRT-P			**11**
CRT-D			**10**

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**23**	
Physiological pacing implants	**22**	
% physiological pacing for SSS	**96 %**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:	10	*ICD national*		*CRT-D national*
Primary prevention:	30%	*44%*		*72%*
Secondary prevention:	70%	*55%*		*27%*
Other indication:		*1%*		*1%*

Centre: **Royal Cornwall Hospital**

Town/City: **Truro**

Local Area Team: **Q66. Devon, Cornwall and Isles Of Scilly**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**285**	**115**	**400**
ICD	**36**	**6**	**42**
CRT-P			**28**
CRT-D			**57**

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**63**	
Physiological pacing implants	**58**	
% physiological pacing for SSS	**92 %**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:	36	*ICD national*	49	*CRT-D national*
Primary prevention:	58%	*44%*	86%	*72%*
Secondary prevention:	42%	*55%*	14%	*27%*
Other indication:		*1%*		*1%*

Centre: **Royal Devon & Exeter Hospital**

Town/City: **Exeter**

Local Area Team: **Q66. Devon, Cornwall and Isles Of Scilly**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**452**	**118**	**570**
ICD	**40**	**13**	**53**
CRT-P			**43**
CRT-D			**38**

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**136**	
Physiological pacing implants	**118**	
% physiological pacing for SSS	**87 %**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:	41	*ICD national*	24	*CRT-D national*
Primary prevention:	20%	*44%*	75%	*72%*
Secondary prevention:	80%	*55%*	25%	*27%*
Other indication:		*1%*		*1%*

Centre: **Torbay Hospital**

Town/City: **Torquay**

Local Area Team: **Q66. Devon, Cornwall and Isles Of Scilly**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**126**	**77**	**203**
ICD	**11**	**3**	**14**
CRT-P			**13**
CRT-D			**14**

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**29**	
Physiological pacing implants	**22**	
% physiological pacing for SSS	**76 %**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:	9	*ICD national*	7	*CRT-D national*
Primary prevention:		*44%*	14%	*72%*
Secondary prevention:	100%	*55%*	86%	*27%*
Other indication:		*1%*		*1%*

Q67. Kent and Medway

Centre: **Darent Valley Hospital**

Town/City: **Dartford**

Local Area Team: **Q67. Kent and Medway**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**135**	**35**	**170**
ICD	**8**	**12**	**20**
CRT-P			**3**
CRT-D			**15**

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**24**	
Physiological pacing implants	**15**	
% physiological pacing for SSS	**63 %**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:		*ICD national*		*CRT-D national*
Primary prevention:		*44%*		*72%*
Secondary prevention:		*55%*		*27%*
Other indication:		*1%*		*1%*

Centre: **Maidstone Hospital**

Town/City: **Maidstone**

Local Area Team: **Q67. Kent and Medway**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**147**	**69**	**216**
ICD	**7**	**21**	**28**
CRT-P			**44**
CRT-D			**56**

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**54**	
Physiological pacing implants	**52**	
% physiological pacing for SSS	**96 %**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:		*ICD national*		*CRT-D national*
Primary prevention:		*44%*		*72%*
Secondary prevention:		*55%*		*27%*
Other indication:		*1%*		*1%*

Centre: **Medway Maritime Hospital**

Town/City: **Gillingham**

Local Area Team: **Q67. Kent and Medway**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**141**	**36**	**177**
ICD	**19**	**10**	**29**
CRT-P			**16**
CRT-D			**17**

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**31**	
Physiological pacing implants	**28**	
% physiological pacing for SSS	**90 %**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:	14	*ICD national*	7	*CRT-D national*
Primary prevention:	79%	*44%*	43%	*72%*
Secondary prevention:	21%	*55%*	57%	*27%*
Other indication:		*1%*		*1%*

Centre: **Queen Elizabeth the Queen Mother Hospital**

Town/City: **Margate**

Local Area Team: **Q67. Kent and Medway**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**219**	**39**	**258**
ICD	**21**	**5**	**26**
CRT-P			**19**
CRT-D			**20**

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**48**	
Physiological pacing implants	**18**	
% physiological pacing for SSS	**38 %**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:	18	*ICD national*	8	*CRT-D national*
Primary prevention:	78%	*44%*	75%	*72%*
Secondary prevention:	22%	*55%*	25%	*27%*
Other indication:		*1%*		*1%*

Centre: **Tunbridge Wells Hospital**

Town/City: **Tunbridge Wells**

Local Area Team: **Q67. Kent and Medway**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**133**	**41**	**174**
ICD			
CRT-P			
CRT-D			

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**40**	
Physiological pacing implants	**36**	
% physiological pacing for SSS	**90 %**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:		*ICD national*		*CRT-D national*
Primary prevention:		*44%*		*72%*
Secondary prevention:		*55%*		*27%*
Other indication:		*1%*		*1%*

Centre: **William Harvey Hospital**

Town/City: **Ashford**

Local Area Team: **Q67. Kent and Medway**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**183**	**66**	**249**
ICD	**21**	**6**	**27**
CRT-P			**15**
CRT-D			**25**

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**63**	
Physiological pacing implants	**61**	
% physiological pacing for SSS	**97 %**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:	18	*ICD national*	11	*CRT-D national*
Primary prevention:	56%	*44%*	45%	*72%*
Secondary prevention:	44%	*55%*	55%	*27%*
Other indication:		*1%*		*1%*

Q68. Surrey and Sussex

Centre: **Conquest Hospital**

Town/City: **St Leonards on Sea**

Local Area Team: **Q68. Surrey and Sussex**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**197**	**54**	**251**
ICD	**13**	**5**	**18**
CRT-P			**14**
CRT-D			**11**

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**52**	
Physiological pacing implants	**44**	
% physiological pacing for SSS	**85 %**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:		*ICD national*		*CRT-D national*
Primary prevention:		*44%*		*72%*
Secondary prevention:		*55%*		*27%*
Other indication:		*1%*		*1%*

Centre: **East Surrey Hospital**

Town/City: **Redhill**

Local Area Team: **Q68. Surrey and Sussex**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**238**	**2**	**240**
ICD	**8**		
CRT-P			
CRT-D			

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**78**	
Physiological pacing implants	**66**	
% physiological pacing for SSS	**85 %**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:	8	*ICD national*		*CRT-D national*
Primary prevention:	63%	*44%*		*72%*
Secondary prevention:	25%	*55%*		*27%*
Other indication:	13%	*1%*		*1%*

Centre: **Eastbourne District General Hospital**

Town/City: **Eastbourne**

Local Area Team: **Q68. Surrey and Sussex**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**208**	**92**	**300**
ICD	**27**	**14**	**41**
CRT-P			**21**
CRT-D			**22**

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**67**	
Physiological pacing implants	**60**	
% physiological pacing for SSS	**90 %**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:		*ICD national*		*CRT-D national*
Primary prevention:		*44%*		*72%*
Secondary prevention:		*55%*		*27%*
Other indication:		*1%*		*1%*

Centre: **Epsom Hospital**

Town/City: **Epsom**

Local Area Team: **Q68. Surrey and Sussex**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**54**	**29**	**83**
ICD			
CRT-P			
CRT-D			

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**13**	
Physiological pacing implants	**11**	
% physiological pacing for SSS	**85 %**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:		*ICD national*		*CRT-D national*
Primary prevention:		*44%*		*72%*
Secondary prevention:		*55%*		*27%*
Other indication:		*1%*		*1%*

Centre: **Frimley Park Hospital**

Town/City: **Frimley**

Local Area Team: **Q68. Surrey and Sussex**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**192**	**28**	**220**
ICD	**18**		
CRT-P			**25**
CRT-D			**16**

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**55**	
Physiological pacing implants	**46**	
% physiological pacing for SSS	**84 %**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:	16	*ICD national*	13	*CRT-D national*
Primary prevention:	19%	*44%*	85%	*72%*
Secondary prevention:	75%	*55%*	15%	*27%*
Other indication:	6%	*1%*		*1%*

Centre: **Royal Surrey County Hospital**

Town/City: **Guildford**

Local Area Team: **Q68. Surrey and Sussex**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**130**	**54**	**184**
ICD	**8**	**2**	**10**
CRT-P			**13**
CRT-D			**17**

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**16**	
Physiological pacing implants	**15**	
% physiological pacing for SSS	**94 %**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:	7	*ICD national*	10	*CRT-D national*
Primary prevention:	29%	*44%*	40%	*72%*
Secondary prevention:	71%	*55%*	60%	*27%*
Other indication:		*1%*		*1%*

Centre: **Royal Sussex County Hospital**

Town/City: **Brighton**

Local Area Team: **Q68. Surrey and Sussex**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**651**	**68**	**719**
ICD	**96**	**15**	**111**
CRT-P			**132**
CRT-D			**145**

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**125**	
Physiological pacing implants	**121**	
% physiological pacing for SSS	**97 %**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:	44	*ICD national*	64	*CRT-D national*
Primary prevention:	75%	*44%*	33%	*72%*
Secondary prevention:	11%	*55%*	42%	*27%*
Other indication:	14%	*1%*	25%	*1%*

Centre: **St Richards Hospital**

Town/City: **Chichester**

Local Area Team: **Q68. Surrey and Sussex**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**168**	**53**	**221**
ICD	**21**	**5**	**26**
CRT-P			**11**
CRT-D			**19**

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**32**	
Physiological pacing implants	**27**	
% physiological pacing for SSS	**84 %**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:	20	*ICD national*	12	*CRT-D national*
Primary prevention:	55%	*44%*	83%	*72%*
Secondary prevention:	45%	*55%*	17%	*27%*
Other indication:		*1%*		*1%*

Centre: **Worthing Hospital**

Town/City: **Worthing**

Local Area Team: **Q68. Surrey and Sussex**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**309**	**75**	**384**
ICD	**27**	**11**	**38**
CRT-P			**20**
CRT-D			**32**

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**92**	
Physiological pacing implants	**91**	
% physiological pacing for SSS	**99 %**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:		*ICD national*		*CRT-D national*
Primary prevention:		*44%*		*72%*
Secondary prevention:		*55%*		*27%*
Other indication:		*1%*		*1%*

Q69. Thames Valley

Centre: **John Radcliffe Hospital**

Town/City: **Oxford**

Local Area Team: **Q69. Thames Valley**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**329**	**79**	**408**
ICD	**97**	**18**	**115**
CRT-P			**37**
CRT-D			**88**

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**11**	
Physiological pacing implants	**10**	
% physiological pacing for SSS	**91 %**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:	22	*ICD national*	25	*CRT-D national*
Primary prevention:	55%	*44%*	84%	*72%*
Secondary prevention:	45%	*55%*	16%	*27%*
Other indication:		*1%*		*1%*

Centre: **Royal Berkshire Hospital**

Town/City: **Reading**

Local Area Team: **Q69. Thames Valley**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**215**	**67**	**282**
ICD	**23**	**11**	**34**
CRT-P			**24**
CRT-D			**28**

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**72**	
Physiological pacing implants	**64**	
% physiological pacing for SSS	**89 %**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:	23	*ICD national*	23	*CRT-D national*
Primary prevention:	48%	*44%*	57%	*72%*
Secondary prevention:	52%	*55%*	43%	*27%*
Other indication:		*1%*		*1%*

Centre: **Wexham Park Hospital**

Town/City: **Slough**

Local Area Team: **Q69. Thames Valley**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**223**	**75**	**298**
ICD	**15**	**7**	**22**
CRT-P			**20**
CRT-D			**46**

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**61**	
Physiological pacing implants	**57**	
% physiological pacing for SSS	**93 %**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:	16	*ICD national*	30	*CRT-D national*
Primary prevention:	19%	*44%*	73%	*72%*
Secondary prevention:	81%	*55%*	27%	*27%*
Other indication:		*1%*		*1%*

Centre: **Wycombe Hospital**

Town/City: **High Wycombe**

Local Area Team: **Q69. Thames Valley**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**203**	**33**	**236**
ICD			
CRT-P			
CRT-D			

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**41**	
Physiological pacing implants	**38**	
% physiological pacing for SSS	**93 %**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:		*ICD national*		*CRT-D national*
Primary prevention:		*44%*		*72%*
Secondary prevention:		*55%*		*27%*
Other indication:		*1%*		*1%*

Q70. Wessex

Centre: **Basingstoke & North Hampshire Hospital**

Town/City: **Basingstoke**

Local Area Team: **Q70. Wessex**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**199**	**42**	**241**
ICD	**12**	**3**	**15**
CRT-P			**21**
CRT-D			

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**12**	
Physiological pacing implants	**12**	
% physiological pacing for SSS	**100 %**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:		*ICD national*		*CRT-D national*
Primary prevention:		*44%*		*72%*
Secondary prevention:		*55%*		*27%*
Other indication:		*1%*		*1%*

Centre: **Dorset County Hospital**

Town/City: **Dorchester**

Local Area Team: **Q70. Wessex**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**232**	**40**	**272**
ICD	**30**	**10**	**40**
CRT-P			**25**
CRT-D			**17**

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**24**	
Physiological pacing implants	**23**	
% physiological pacing for SSS	**96 %**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:	26	*ICD national*		*CRT-D national*
Primary prevention:	38%	*44%*		*72%*
Secondary prevention:	62%	*55%*		*27%*
Other indication:		*1%*		*1%*

Centre: **Poole Hospital**

Town/City: **Poole**

Local Area Team: **Q70. Wessex**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**152**	**50**	**202**
ICD			
CRT-P			
CRT-D			

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**60**	
Physiological pacing implants	**56**	
% physiological pacing for SSS	**93 %**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:		*ICD national*		*CRT-D national*
Primary prevention:		*44%*		*72%*
Secondary prevention:		*55%*		*27%*
Other indication:		*1%*		*1%*

Centre: **Queen Alexandra Hospital**

Town/City: **Portsmouth**

Local Area Team: **Q70. Wessex**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**371**	**100**	**471**
ICD	**27**	**6**	**33**
CRT-P			**36**
CRT-D			**49**

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**107**	
Physiological pacing implants	**90**	
% physiological pacing for SSS	**84 %**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:	27	*ICD national*	40	*CRT-D national*
Primary prevention:	19%	*44%*	70%	*72%*
Secondary prevention:	81%	*55%*	30%	*27%*
Other indication:		*1%*		*1%*

Centre: **Royal Bournemouth Hospital**

Town/City: **Bournemouth**

Local Area Team: **Q70. Wessex**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**296**	**122**	**418**
ICD	**41**	**22**	**63**
CRT-P			**136**
CRT-D			**115**

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**63**	
Physiological pacing implants	**57**	
% physiological pacing for SSS	**90 %**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:	21	*ICD national*	39	*CRT-D national*
Primary prevention:	38%	*44%*	79%	*72%*
Secondary prevention:	62%	*55%*	21%	*27%*
Other indication:		*1%*		*1%*

Centre: **Royal Hampshire County Hospital**

Town/City: **Winchester**

Local Area Team: **Q70. Wessex**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**1**	**9**	**10**
ICD			
CRT-P			
CRT-D			

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome

Physiological pacing implants

% physiological pacing for SSS **%** UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:		*ICD national*		*CRT-D national*
Primary prevention:		*44%*		*72%*
Secondary prevention:		*55%*		*27%*
Other indication:		*1%*		*1%*

Centre: **Southampton General Hospital**

Town/City: **Southampton**

Local Area Team: **Q70. Wessex**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**346**	**220**	**566**
ICD	**70**	**80**	**150**
CRT-P			**41**
CRT-D			**116**

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**64**	
Physiological pacing implants	**53**	
% physiological pacing for SSS	**83 %**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:	45	*ICD national*	30	*CRT-D national*
Primary prevention:	53%	*44%*	87%	*72%*
Secondary prevention:	47%	*55%*	13%	*27%*
Other indication:		*1%*		*1%*

Centre: **Spire Southampton Hospital**

Town/City: **Southampton**

Local Area Team: **Q70. Wessex**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**22**	**13**	**35**
ICD	**1**	**1**	**2**
CRT-P			**5**
CRT-D			**3**

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**7**	
Physiological pacing implants	**7**	
% physiological pacing for SSS	**%**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:		*ICD national*		*CRT-D national*
Primary prevention:		*44%*		*72%*
Secondary prevention:		*55%*		*27%*
Other indication:		*1%*		*1%*

Centre: **St Marys Hospital Isle of Wight**

Town/City: **Newport**

Local Area Team: **Q70. Wessex**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**55**	**29**	**84**
ICD			
CRT-P			
CRT-D			

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**21**	
Physiological pacing implants	**15**	
% physiological pacing for SSS	**71 %**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:		*ICD national*		*CRT-D national*
Primary prevention:		*44%*		*72%*
Secondary prevention:		*55%*		*27%*
Other indication:		*1%*		*1%*

Q71. London

Centre: **Barnet General Hospital**

Town/City: **Barnet**

Local Area Team: **Q71. London**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**190**	**51**	**241**
ICD	**5**	**5**	**10**
CRT-P			**4**
CRT-D			**11**

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**40**	
Physiological pacing implants	**31**	
% physiological pacing for SSS	**78 %**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:	5	*ICD national*	8	*CRT-D national*
Primary prevention:	80%	*44%*	88%	*72%*
Secondary prevention:	20%	*55%*	13%	*27%*
Other indication:		*1%*		*1%*

Centre: **Barts and the London**

Town/City: **London**

Local Area Team: **Q71. London**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**459**	**130**	**589**
ICD	**122**	**24**	**146**
CRT-P			**57**
CRT-D			**111**

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**86**	
Physiological pacing implants	**60**	
% physiological pacing for SSS	**70 %**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:	184	*ICD national*	11	*CRT-D national*
Primary prevention:	69%	*44%*	82%	*72%*
Secondary prevention:	30%	*55%*	18%	*27%*
Other indication:	1%	*1%*		*1%*

Centre: **Central Middlesex Hospital**

Town/City: **Park Royal**

Local Area Team: **Q71. London**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**85**	**47**	**132**
ICD			
CRT-P			
CRT-D			

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**25**	
Physiological pacing implants	**18**	
% physiological pacing for SSS	**72 %**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:		*ICD national*		*CRT-D national*
Primary prevention:		*44%*		*72%*
Secondary prevention:		*55%*		*27%*
Other indication:		*1%*		*1%*

Centre: **Chelsea & Westminster Hospital**

Town/City: **London**

Local Area Team: **Q71. London**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**58**	**4**	**62**
ICD			
CRT-P			
CRT-D			

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**16**	
Physiological pacing implants	**14**	
% physiological pacing for SSS	**88 %**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:		*ICD national*		*CRT-D national*
Primary prevention:		*44%*		*72%*
Secondary prevention:		*55%*		*27%*
Other indication:		*1%*		*1%*

Centre: **Cromwell Hospital**

Town/City: **London**

Local Area Team: **Q71. London**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**20**	**1**	**21**
ICD	**7**		
CRT-P			
CRT-D			

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**3**	
Physiological pacing implants	**3**	
% physiological pacing for SSS	**%**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:	6	*ICD national*		*CRT-D national*
Primary prevention:	83%	*44%*		*72%*
Secondary prevention:	17%	*55%*		*27%*
Other indication:		*1%*		*1%*

Centre: **Croydon University Hospital**

Town/City: **Croydon**

Local Area Team: **Q71. London**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**91**	**29**	**120**
ICD	**16**		
CRT-P			**15**
CRT-D			

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**21**	
Physiological pacing implants	**21**	
% physiological pacing for SSS	**100 %**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:	16	*ICD national*	17	*CRT-D national*
Primary prevention:	50%	*44%*	100%	*72%*
Secondary prevention:	50%	*55%*		*27%*
Other indication:		*1%*		*1%*

Centre: **Ealing Hospital**

Town/City: **London**

Local Area Team: **Q71. London**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**107**	**5**	**112**
ICD			
CRT-P			
CRT-D			

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**19**	
Physiological pacing implants	**12**	
% physiological pacing for SSS	**63 %**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:		*ICD national*		*CRT-D national*
Primary prevention:		*44%*		*72%*
Secondary prevention:		*55%*		*27%*
Other indication:		*1%*		*1%*

Centre: **Great Ormond Street Hospital**

Town/City: **London**

Local Area Team: **Q71. London**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**20**	**19**	**39**
ICD	**6**		
CRT-P			
CRT-D			

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**2**	
Physiological pacing implants	**2**	
% physiological pacing for SSS	**%**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:		*ICD national*		*CRT-D national*
Primary prevention:		*44%*		*72%*
Secondary prevention:		*55%*		*27%*
Other indication:		*1%*		*1%*

Centre: **Hammersmith Hospital**

Town/City: **London**

Local Area Team: **Q71. London**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**323**	**57**	**380**
ICD	**48**	**13**	**61**
CRT-P			**47**
CRT-D			**32**

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**52**	
Physiological pacing implants	**50**	
% physiological pacing for SSS	**96 %**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:	22	*ICD national*	11	*CRT-D national*
Primary prevention:	59%	*44%*	36%	*72%*
Secondary prevention:	41%	*55%*	64%	*27%*
Other indication:		*1%*		*1%*

Centre: **Harefield Hospital**

Town/City: **Uxbridge**

Local Area Team: **Q71. London**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**257**	**127**	**384**
ICD	**55**	**32**	**87**
CRT-P			**46**
CRT-D			**110**

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**20**	
Physiological pacing implants	**19**	
% physiological pacing for SSS	**95 %**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:	55	*ICD national*	59	*CRT-D national*
Primary prevention:	27%	*44%*	83%	*72%*
Secondary prevention:	73%	*55%*	17%	*27%*
Other indication:		*1%*		*1%*

Centre: **Harley Street Clinic**

Town/City: **London**

Local Area Team: **Q71. London**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**102**	**29**	**131**
ICD	**15**	**3**	**18**
CRT-P			**13**
CRT-D			**11**

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**10**	
Physiological pacing implants	**10**	
% physiological pacing for SSS	**100 %**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:	10	*ICD national*	6	*CRT-D national*
Primary prevention:	50%	*44%*	67%	*72%*
Secondary prevention:	40%	*55%*	17%	*27%*
Other indication:	10%	*1%*	17%	*1%*

Centre: **King George Hospital Goodmayes**

Town/City: **Goodmayes**

Local Area Team: **Q71. London**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**237**	**44**	**281**
ICD			
CRT-P			
CRT-D			

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**61**	
Physiological pacing implants	**59**	
% physiological pacing for SSS	**97 %**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:		*ICD national*		*CRT-D national*
Primary prevention:		*44%*		*72%*
Secondary prevention:		*55%*		*27%*
Other indication:		*1%*		*1%*

Centre: **Kings College Hospital**

Town/City: **London**

Local Area Team: **Q71. London**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**195**	**42**	**237**
ICD	**85**	**21**	**106**
CRT-P			**38**
CRT-D			**76**

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**41**	
Physiological pacing implants	**35**	
% physiological pacing for SSS	**85 %**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:	81	*ICD national*	55	*CRT-D national*
Primary prevention:	26%	*44%*	69%	*72%*
Secondary prevention:	74%	*55%*	31%	*27%*
Other indication:		*1%*		*1%*

Centre: **Kingston Hospital**

Town/City: **Kingston-upon-Thames**

Local Area Team: **Q71. London**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**108**	**13**	**121**
ICD			
CRT-P			
CRT-D			

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**20**	
Physiological pacing implants	**14**	
% physiological pacing for SSS	**70 %**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:		*ICD national*		*CRT-D national*
Primary prevention:		*44%*		*72%*
Secondary prevention:		*55%*		*27%*
Other indication:		*1%*		*1%*

Centre: **Lewisham Hospital**

Town/City: **London**

Local Area Team: **Q71. London**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**59**	**3**	**62**
ICD			
CRT-P			
CRT-D			

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**17**	
Physiological pacing implants	**16**	
% physiological pacing for SSS	**94 %**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:		*ICD national*		*CRT-D national*
Primary prevention:		*44%*		*72%*
Secondary prevention:		*55%*		*27%*
Other indication:		*1%*		*1%*

Centre: **London Bridge Hospital**

Town/City: **London**

Local Area Team: **Q71. London**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**66**	**23**	**89**
ICD	**10**	**5**	**15**
CRT-P			**11**
CRT-D			**19**

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**11**	
Physiological pacing implants	**11**	
% physiological pacing for SSS	**100 %**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:	7	*ICD national*	11	*CRT-D national*
Primary prevention:	43%	*44%*	100%	*72%*
Secondary prevention:	57%	*55%*		*27%*
Other indication:		*1%*		*1%*

Centre: **London Independent Hospital**

Town/City: **London**

Local Area Team: **Q71. London**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**25**	**8**	**33**
ICD	**1**		
CRT-P			
CRT-D			

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome

Physiological pacing implants

% physiological pacing for SSS **%** UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:		*ICD national*		*CRT-D national*
Primary prevention:		*44%*		*72%*
Secondary prevention:		*55%*		*27%*
Other indication:		*1%*		*1%*

Centre: **North Middlesex University Hospital**

Town/City: **London**

Local Area Team: **Q71. London**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**5**	**3**	**8**
ICD			
CRT-P			
CRT-D			

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome

Physiological pacing implants

% physiological pacing for SSS **%** UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:		*ICD national*		*CRT-D national*
Primary prevention:		*44%*		*72%*
Secondary prevention:		*55%*		*27%*
Other indication:		*1%*		*1%*

Centre: **Northwick Park Hospital**

Town/City: **Harrow**

Local Area Team: **Q71. London**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**166**	**75**	**241**
ICD	**4**	**2**	**6**
CRT-P			**6**
CRT-D			

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**53**	
Physiological pacing implants	**51**	
% physiological pacing for SSS	**96 %**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:		*ICD national*	5	*CRT-D national*
Primary prevention:		*44%*	60%	*72%*
Secondary prevention:		*55%*	40%	*27%*
Other indication:		*1%*		*1%*

Centre: **Queen Elizabeth Hospital Greenwich**

Town/City: **Greenwich**

Local Area Team: **Q71. London**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**161**	**42**	**203**
ICD	**5**		
CRT-P			**22**
CRT-D			**10**

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**34**	
Physiological pacing implants	**16**	
% physiological pacing for SSS	**47 %**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:	5	*ICD national*		*CRT-D national*
Primary prevention:	20%	*44%*		*72%*
Secondary prevention:	80%	*55%*		*27%*
Other indication:		*1%*		*1%*

Centre: **Royal Brompton Hospital**

Town/City: **London**

Local Area Team: **Q71. London**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**249**	**119**	**368**
ICD	**87**	**38**	**125**
CRT-P			**91**
CRT-D			**140**

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**33**	
Physiological pacing implants	**32**	
% physiological pacing for SSS	**97 %**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:	88	*ICD national*	84	*CRT-D national*
Primary prevention:	39%	*44%*	79%	*72%*
Secondary prevention:	61%	*55%*	21%	*27%*
Other indication:		*1%*		*1%*

Centre: **Royal Free Hospital**

Town/City: **London**

Local Area Team: **Q71. London**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**109**	**36**	**145**
ICD	**35**	**2**	**37**
CRT-P			**8**
CRT-D			**27**

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome

Physiological pacing implants

% physiological pacing for SSS **%** UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:	35	*ICD national*	24	*CRT-D national*
Primary prevention:	37%	*44%*	67%	*72%*
Secondary prevention:	63%	*55%*	33%	*27%*
Other indication:		*1%*		*1%*

Centre: **St Anthonys Hospital**

Town/City: **North Cheam**

Local Area Team: **Q71. London**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**46**	**19**	**65**
ICD			
CRT-P			
CRT-D			

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**7**	
Physiological pacing implants	**7**	
% physiological pacing for SSS	**%**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:		*ICD national*		*CRT-D national*
Primary prevention:		*44%*		*72%*
Secondary prevention:		*55%*		*27%*
Other indication:		*1%*		*1%*

Centre: **St Georges Hospital**

Town/City: **London**

Local Area Team: **Q71. London**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**343**	**96**	**439**
ICD	**67**	**40**	**107**
CRT-P			**71**
CRT-D			**116**

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**77**	
Physiological pacing implants	**65**	
% physiological pacing for SSS	**84 %**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:	67	*ICD national*	92	*CRT-D national*
Primary prevention:	24%	*44%*	57%	*72%*
Secondary prevention:	76%	*55%*	42%	*27%*
Other indication:		*1%*	1%	*1%*

Centre: **St Marys Hospital Paddington**

Town/City: **London**

Local Area Team: **Q71. London**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**70**	**14**	**84**
ICD	**13**	**2**	**15**
CRT-P			**17**
CRT-D			**11**

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome

Physiological pacing implants

% physiological pacing for SSS **%** UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:		*ICD national*		*CRT-D national*
Primary prevention:		*44%*		*72%*
Secondary prevention:		*55%*		*27%*
Other indication:		*1%*		*1%*

Centre: **St Peters Hospital**

Town/City: **Chertsey**

Local Area Team: **Q71. London**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**234**	**67**	**301**
ICD	**22**	**8**	**30**
CRT-P			**40**
CRT-D			**42**

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**64**	
Physiological pacing implants	**47**	
% physiological pacing for SSS	**73 %**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:	21	*ICD national*	32	*CRT-D national*
Primary prevention:	52%	*44%*	41%	*72%*
Secondary prevention:	48%	*55%*	59%	*27%*
Other indication:		*1%*		*1%*

Centre: **St Thomas Hospital**

Town/City: **London**

Local Area Team: **Q71. London**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**237**	**163**	**400**
ICD	**72**	**54**	**126**
CRT-P			**22**
CRT-D			**90**

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**43**	
Physiological pacing implants	**37**	
% physiological pacing for SSS	**86 %**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:		*ICD national*		*CRT-D national*
Primary prevention:		*44%*		*72%*
Secondary prevention:		*55%*		*27%*
Other indication:		*1%*		*1%*

Centre: **The Princess Royal University Hospital Bromle**

Town/City: **Bromley**

Local Area Team: **Q71. London**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**118**	**17**	**135**
ICD			
CRT-P			
CRT-D			

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**20**	
Physiological pacing implants	**14**	
% physiological pacing for SSS	**70 %**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:		*ICD national*		*CRT-D national*
Primary prevention:		*44%*		*72%*
Secondary prevention:		*55%*		*27%*
Other indication:		*1%*		*1%*

Centre: **University College Hospital**

Town/City: **London**

Local Area Team: **Q71. London**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**344**	**115**	**459**
ICD	**98**	**69**	**167**
CRT-P			**39**
CRT-D			**79**

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**64**	
Physiological pacing implants	**50**	
% physiological pacing for SSS	**78 %**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:	99	*ICD national*	34	*CRT-D national*
Primary prevention:	44%	*44%*	71%	*72%*
Secondary prevention:	55%	*55%*	29%	*27%*
Other indication:	1%	*1%*		*1%*

Centre: **Wellington Hospital North**

Town/City: **London**

Local Area Team: **Q71. London**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**98**	**57**	**155**
ICD	**7**	**7**	**14**
CRT-P			
CRT-D			**19**

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**33**	
Physiological pacing implants	**30**	
% physiological pacing for SSS	**91 %**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:	6	*ICD national*	8	*CRT-D national*
Primary prevention:	17%	*44%*	63%	*72%*
Secondary prevention:	83%	*55%*	38%	*27%*
Other indication:		*1%*		*1%*

Centre: **Whipps Cross University Hospital**

Town/City: **London**

Local Area Team: **Q71. London**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**95**	**29**	**124**
ICD			
CRT-P			
CRT-D			

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**25**	
Physiological pacing implants	**25**	
% physiological pacing for SSS	**100 %**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:		*ICD national*		*CRT-D national*
Primary prevention:		*44%*		*72%*
Secondary prevention:		*55%*		*27%*
Other indication:		*1%*		*1%*

Centre: **Glan Clwyd District General Hospital**

Town/City: **Rhyl**

Local Area Team: **North Wales**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**96**	**40**	**136**
ICD			
CRT-P			
CRT-D			

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**20**	
Physiological pacing implants	**18**	
% physiological pacing for SSS	**90 %**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:		*ICD national*		*CRT-D national*
Primary prevention:		*44%*		*72%*
Secondary prevention:		*55%*		*27%*
Other indication:		*1%*		*1%*

Centre: **Gwynedd Hospital**

Town/City: **Bangor**

Local Area Team: **North Wales**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**97**	**43**	**140**
ICD	**10**	**5**	**15**
CRT-P			**21**
CRT-D			**19**

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**14**	
Physiological pacing implants	**11**	
% physiological pacing for SSS	**79 %**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:		*ICD national*		*CRT-D national*
Primary prevention:		*44%*		*72%*
Secondary prevention:		*55%*		*27%*
Other indication:		*1%*		*1%*

Centre: **Maelor Hospital Wrexham**

Town/City: **Wrexham**

Local Area Team: **North Wales**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**134**	**61**	**195**
ICD	**10**	**2**	**12**
CRT-P			**11**
CRT-D			**20**

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**57**	
Physiological pacing implants	**45**	
% physiological pacing for SSS	**79 %**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:		*ICD national*		*CRT-D national*
Primary prevention:		*44%*		*72%*
Secondary prevention:		*55%*		*27%*
Other indication:		*1%*		*1%*

Centre: **Glangwili General Hospital**
Town/City: **Carmarthen**
Local Area Team: **South Wales**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**227**	**62**	**289**
ICD			
CRT-P			
CRT-D			

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**48**	
Physiological pacing implants	**37**	
% physiological pacing for SSS	**77 %**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:		*ICD national*		*CRT-D national*
Primary prevention:		*44%*		*72%*
Secondary prevention:		*55%*		*27%*
Other indication:		*1%*		*1%*

Centre: **Morriston Hospital**

Town/City: **Swansea**

Local Area Team: **South Wales**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**275**	**81**	**356**
ICD	**55**	**25**	**80**
CRT-P			**44**
CRT-D			**50**

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**62**	
Physiological pacing implants	**46**	
% physiological pacing for SSS	**74 %**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:	56	*ICD national*	27	*CRT-D national*
Primary prevention:	50%	*44%*	70%	*72%*
Secondary prevention:	50%	*55%*	30%	*27%*
Other indication:		*1%*		*1%*

Centre: **Neville Hall Hospital**

Town/City: **Abergavenny**

Local Area Team: **South Wales**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**150**	**11**	**161**
ICD			
CRT-P			
CRT-D			

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**1**	
Physiological pacing implants	**1**	
% physiological pacing for SSS	**%**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:		*ICD national*		*CRT-D national*
Primary prevention:		*44%*		*72%*
Secondary prevention:		*55%*		*27%*
Other indication:		*1%*		*1%*

Centre: **Prince Charles Hospital**

Town/City: **Merthyr Tydfil**

Local Area Team: **South Wales**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**77**	**6**	**83**
ICD			
CRT-P			
CRT-D			

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**16**	
Physiological pacing implants	**13**	
% physiological pacing for SSS	**81 %**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:		*ICD national*		*CRT-D national*
Primary prevention:		*44%*		*72%*
Secondary prevention:		*55%*		*27%*
Other indication:		*1%*		*1%*

Centre: **Princess Of Wales Hospital**

Town/City: **Bridgend**

Local Area Team: **South Wales**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**89**	**2**	**91**
ICD			
CRT-P			
CRT-D			

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**31**	
Physiological pacing implants	**31**	
% physiological pacing for SSS	**100 %**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:		*ICD national*		*CRT-D national*
Primary prevention:		*44%*		*72%*
Secondary prevention:		*55%*		*27%*
Other indication:		*1%*		*1%*

Centre: **Royal Glamorgan Hospital**

Town/City: **Ynysmaerdy**

Local Area Team: **South Wales**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**97**	**26**	**123**
ICD	**3**	**1**	**4**
CRT-P			**16**
CRT-D			

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**31**	
Physiological pacing implants	**31**	
% physiological pacing for SSS	**100 %**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:		*ICD national*		*CRT-D national*
Primary prevention:		*44%*		*72%*
Secondary prevention:		*55%*		*27%*
Other indication:		*1%*		*1%*

Centre: **Royal Gwent Hospital**

Town/City: **Newport**

Local Area Team: **South Wales**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**174**	**45**	**219**
ICD			
CRT-P			
CRT-D			

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**29**	
Physiological pacing implants	**26**	
% physiological pacing for SSS	**90 %**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:		*ICD national*		*CRT-D national*
Primary prevention:		*44%*		*72%*
Secondary prevention:		*55%*		*27%*
Other indication:		*1%*		*1%*

Centre: **University Hospital of Wales**

Town/City: **Cardiff**

Local Area Team: **South Wales**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**267**	**136**	**403**
ICD	**100**	**67**	**167**
CRT-P			**52**
CRT-D			**117**

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**55**	
Physiological pacing implants	**51**	
% physiological pacing for SSS	**93 %**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:	73	*ICD national*	55	*CRT-D national*
Primary prevention:	25%	*44%*	47%	*72%*
Secondary prevention:	75%	*55%*	51%	*27%*
Other indication:		*1%*	2%	*1%*

Centre: **Belfast City Hospital**
Town/City: **Belfast**
Local Area Team: **N Ireland**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**351**	**137**	**488**
ICD	**27**	**26**	**53**
CRT-P			**28**
CRT-D			**44**

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**135**	
Physiological pacing implants	**123**	
% physiological pacing for SSS	**91 %**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:	15	*ICD national*	12	*CRT-D national*
Primary prevention:	87%	*44%*	83%	*72%*
Secondary prevention:	13%	*55%*	17%	*27%*
Other indication:		*1%*		*1%*

Centre: **Craigavon Area Hospital**

Town/City: **Portadown**

Local Area Team: **N Ireland**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**93**	**21**	**114**
ICD			
CRT-P			**6**
CRT-D			

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**25**	
Physiological pacing implants	**21**	
% physiological pacing for SSS	**84 %**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:		*ICD national*		*CRT-D national*
Primary prevention:		*44%*		*72%*
Secondary prevention:		*55%*		*27%*
Other indication:		*1%*		*1%*

Centre: **Royal Hospitals Belfast**

Town/City: **Belfast**

Local Area Team: **N Ireland**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**304**	**84**	**388**
ICD	**113**	**78**	**191**
CRT-P			**39**
CRT-D			**92**

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**106**	
Physiological pacing implants	**99**	
% physiological pacing for SSS	**93 %**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:	111	*ICD national*	43	*CRT-D national*
Primary prevention:	43%	*44%*	58%	*72%*
Secondary prevention:	55%	*55%*	40%	*27%*
Other indication:	2%	*1%*	2%	*1%*

Centre: **Dumfries and Galloway Royal Infirmary**

Town/City: **Dumfries**

Local Area Team: **Scotland**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**48**	**12**	**60**
ICD		**1**	
CRT-P			
CRT-D			

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome

Physiological pacing implants

% physiological pacing for SSS **%** UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:		*ICD national*		*CRT-D national*
Primary prevention:		*44%*		*72%*
Secondary prevention:		*55%*		*27%*
Other indication:		*1%*		*1%*

Centre: **Edinburgh Royal Infirmary**

Town/City: **Edinburgh**

Local Area Team: **Scotland**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**465**	**124**	**589**
ICD	**67**	**31**	**98**
CRT-P			**63**
CRT-D			**33**

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**128**	
Physiological pacing implants	**110**	
% physiological pacing for SSS	**86 %**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:	66	*ICD national*	25	*CRT-D national*
Primary prevention:	17%	*44%*	56%	*72%*
Secondary prevention:	83%	*55%*	40%	*27%*
Other indication:		*1%*	4%	*1%*

Centre: **Golden Jubilee Hospital**

Town/City: **Glasgow**

Local Area Team: **Scotland**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**44**	**17**	**61**
ICD	**110**	**33**	**143**
CRT-P			**60**
CRT-D			**77**

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**8**	
Physiological pacing implants	**5**	
% physiological pacing for SSS	**%**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:	80	*ICD national*	38	*CRT-D national*
Primary prevention:	44%	*44%*	63%	*72%*
Secondary prevention:	56%	*55%*	37%	*27%*
Other indication:		*1%*		*1%*

Centre: **Queen Margaret Hospital**

Town/City: **Dunfermline**

Local Area Team: **Scotland**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker		**1**	
ICD			
CRT-P			
CRT-D			

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome

Physiological pacing implants

% physiological pacing for SSS **%** UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:		*ICD national*		*CRT-D national*
Primary prevention:		*44%*		*72%*
Secondary prevention:		*55%*		*27%*
Other indication:		*1%*		*1%*

Centre: **Royal Infirmary Aberdeen**

Town/City: **Aberdeen**

Local Area Team: **Scotland**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**197**	**50**	**247**
ICD	**21**	**3**	**24**
CRT-P			**30**
CRT-D			**8**

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**17**	
Physiological pacing implants	**16**	
% physiological pacing for SSS	**94 %**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:	15	*ICD national*		*CRT-D national*
Primary prevention:	73%	*44%*		*72%*
Secondary prevention:	27%	*55%*		*27%*
Other indication:		*1%*		*1%*

Centre: **Victoria Hospital Kirkcaldy**

Town/City: **Kirkcaldy**

Local Area Team: **Scotland**

Procedures registered with NICOR for 2013-14

	New	Replacement	Total
Pacemaker	**126**	**22**	**148**
ICD	**13**	**4**	**17**
CRT-P			**9**
CRT-D			

Note: if an implant was performed elsewhere and the implanting hospital did not register the implant, then it will be included in these counts.

Physiological pacing for Sick Sinus Syndrome

New implants for Sick Sinus Syndrome	**30**	
Physiological pacing implants	**15**	
% physiological pacing for SSS	**50 %**	UK national average 87.3%

Indication for High Energy Devices Reference: NICE Guidance TA095, TA120, TA314

	ICD		CRT-D	
New Devices with a registered indication:	13	*ICD national*		*CRT-D national*
Primary prevention:	23%	*44%*		*72%*
Secondary prevention:	77%	*55%*		*27%*
Other indication:		*1%*		*1%*

Appendix 1 – Applicable NICE guidelines

Indicator	Guideline	Title	Date published
Physiological pacing for Sick Sinus Syndrome	NICE technology appraisal TA88 www. nice. org. uk/guidance/ta88	Dual-chamber pacemakers for symptomatic bradycardia due to sick sinus syndrome and/or atrioventricular block	February 2005
Indication for High Energy Devices	NICE technology appraisal TA314 www. nice. org. uk/guidance/ta314	Implantable cardioverter defibrillators and cardiac resynchronisation therapy for arrhythmias and heart failure (review of TA95 and TA120)	June 2014 Superseding TA95 and TA120

Appendix 2 – Audit Steering Group membership

The British Heart Rhythm Society (BHRS) provides clinical governance to the CRM Audit through the Audit Steering Group, chaired by Dr Francis Murgatroyd and Dr Nick Linker. The Steering Group includes representation from all stakeholders in the audit.

Current membership is as follows:

Name	Committee Position	Job title	Organisation
David Cunningham	Research Committee	Senior strategist	NICOR, UCL
Morag Cunningham	Secretary	Project co-ordinator	NICOR, UCL
Heather Cusden	Cardiac Physiology representative	Clinical cardiac physiologist	Royal Devon & Exeter Hospital
Nadeem Fazal		NICOR audits service manager	NICOR, UCL
Roy Gardner	British Society for Heart Failure representative	Consultant cardiologist	Golden Jubilee Hospital/British Society for Heart Failure
Steven Gilbert		Project Manager	NICOR, UCL
Michael Griffith	BHRS EP/Ablation representative	Consultant cardiologist	Queen Elizabeth Hospital Birmingham/BHRS
Simon Holmes	MHRA representative	Senior medical device specialist	Medicines & Healthcare Products Regulatory Agency
Mauro Lencioni	EP/Ablation advisor-PROMS lead	Consultant cardiologist	Queen Elizabeth Hospital Birmingham
Nick Linker	**BHRS representative Co-Chair**	**Consultant cardiologist**	**The James Cook University Hospital**
Trudie Lobban	Patient Group representative	Trustee	Arrhythmia Alliance
Janet McComb		Consultant cardiologist	Freeman Hospital
Francis Murgatroyd	**BHRS representative Co-Chair**	**Consultant cardiologist**	**Kings College Hospital/BHRS**
Mark O'Neill	Research lead	Consultant Cardiologist	St Thomas' Hospital
Hannah Patrick	NICE representative	Consultant Clinical Advisor to the IP Programme	NICE
Chris Plummer		Consultant Cardiologist	Freeman Hospital
David Roberts	Industry representative	Marketing manager Medtronic UK	Association of British Healthcare Industries

Name	Committee Position	Job title	Organisation
Edward Rowland	BHRS Past President ex officio	Consultant cardiologist	University College Hospital/BHRS
Julie Sanders		Chief Operating Officer	NICOR, UCL
Richard Schilling	Research Committee	Professor of cardiology	Barts and the London
Marion Standing		System developer CRM	NICOR, UCL
Derick Todd	EP/Ablation advisor	Consultant cardiologist	Liverpool Cardiothoraic Centre
Jay Wright		Consultant cardiologist	Liverpool Cardiothoraic Centre

Appendix 3 -List of hospitals participating in the 2013/14 audit

2013/14 CRM Audit Participation – Device Type by Hospital (England & Wales)

Hospital	Pacemaker	High Energy (ICD and/or CRTD)
ACH. Alder Hey Hospital	yes	yes
ADD. Addenbrookes Hospital	yes	yes
AEI. Royal Albert Edward Infirmary	yes	
AHM. BMI The Alexandra Hospital	yes	yes
AIR. Airedale General Hospital	yes	yes
AMG. Wycombe Hospital	yes	
ANT. St Anthonys Hospital	yes	
ASH. Wansbeck General Hospital	yes	yes
BAL. Barts and the London	yes	yes
BAR. Barnsley District General Hospital	yes	
BAS. Basildon Hospital	yes	yes
BAT. Royal United Hospital Bath	yes	
BCH. Birmingham Childrens Hospital	yes	yes
BED. Bedford Hospital	yes	
BFH. Broomfield Hospital	yes	
BHH. Rochdale Infirmary	yes	yes
BHL. Liverpool Heart & Chest Hospital	yes	yes
BHR. Royal Berkshire Hospital	yes	yes
BLA. Royal Blackburn Hospital	yes	
BNT. Barnet General Hospital	yes	yes
BOL. Royal Bolton Hospital	yes	yes
BOU. Royal Bournemouth Hospital	yes	yes
BRC. Bristol Royal Hospital for Children	yes	yes
BRD. Bradford Royal Infirmary	yes	yes
BRI. Bristol Royal Infirmary	yes	yes
BRO. The Princess Royal University Hospital Bromley	yes	
BRT. Queens Hospital Burton	yes	
BUS. Spire Bushey Hospital	yes	yes
CBS. Spire Southampton Hospital	yes	yes
CGH. Conquest Hospital	yes	yes
CHA. BMI Chaucer Hospital	yes	
CHE. Chesterfield Royal Hospital	yes	

CHG. Cheltenham General Hospital	yes	yes
CHH. Castle Hill Hospital	yes	yes
CHN. Nottingham City Hospital	yes	yes
CLW. Glan Clwyd District General Hospital	yes	
CMH. Central Middlesex Hospital	yes	
CMI. Cumberland Infirmary	yes	
COC. Countess of Chester Hospital	yes	
COL. Colchester General Hospital	yes	yes
CRO. Cromwell Hospital	yes	yes
DAR. Darlington Memorial Hospital	yes	
DER. Royal Derby Hospital	yes	
DEW. Dewsbury District Hospital	yes	yes
DGE. Eastbourne District General Hospital	yes	yes
DID. Doncaster Royal Infirmary	yes	
DRY. University Hospital of North Durham	yes	
DUD. Birmingham City Hospital	yes	yes
DVH. Darent Valley Hospital	yes	yes
EAL. Ealing Hospital	yes	
EPS. Epsom Hospital	yes	
ESU. East Surrey Hospital	yes	yes
FAZ. Aintree University Hospital	yes	
FRE. Freeman Hospital Newcastle	yes	yes
FRM. Frimley Park Hospital	yes	yes
FRY. Frenchay Hospital	yes	yes
GEO. St Georges Hospital	yes	yes
GGH. Diana, Princess of Wales Hospital Grimsby	yes	
GHB. Spire Bristol Hospital	yes	yes
GHS. Good Hope Hospital	yes	yes
GLO. Gloucestershire Royal Infirmary	yes	yes
GOS. Great Ormond Street Hospital	yes	yes
GRL. Glenfield Hospital	yes	yes
GUY. Guys Hospital	yes	yes
GWE. Royal Gwent Hospital	yes	
GWH. Queen Elizabeth Hospital Greenwich	yes	yes
GWY. Gwynedd Hospital	yes	yes
HAM. Hammersmith Hospital	yes	yes
HAR. Harrogate District Hospital	yes	yes

HBP. Spire Hull and East Riding Hospital	yes	yes
HCH. County Hospital Hereford	yes	yes
HGH. University Hospital of Hartlepool	yes	
HH.. arefield Hospital	yes	yes
HHW. Wellington Hospital North	yes	yes
HSC. Harley Street Clinic	yes	yes
HUD. Huddersfield Royal Hospital	yes	yes
IND. London Independent Hospital	yes	yes
IOW. St Marys Hospital Isle of Wight	yes	
IPS. The Ipswich Hospital	yes	
KCH. Kings College Hospital	yes	yes
KGG. King George Hospital Goodmayes	yes	
KGH. Kettering General Hospital	yes	yes
KMH. Kings Mill Hospital	yes	yes
KSX. Tunbridge Wells Hospital	yes	yes
KTH. Kingston Hospital	yes	
LBH. London Bridge Hospital	yes	yes
LBP. Spire Leicester Hospital	yes	yes
LDH. Luton & Dunstable Hospital	yes	
LEB. Spire Leeds Hospital	yes	yes
LEW. Lewisham Hospital	yes	
LGI. Leeds General Infirmary	yes	yes
LIN. Lincoln County Hospital	yes	
LIS. Lister Hospital	yes	
LNH. Leeds Nuffield hospital	yes	yes
MAI. Maidstone Hospital	yes	yes
MAY. Croydon University Hospital	yes	yes
MDW. Medway Maritime Hospital	yes	yes
MKH. Milton Keynes Hospital	yes	yes
MOR. Morriston Hospital	yes	yes
MPH. Musgrove Park Hospital	yes	yes
MRI. Manchester Royal Infirmary	yes	yes
NCR. New Cross Hospital (Wolverhampton Heart Centre)	yes	yes
NDD. North Devon District Hospital	yes	yes
NEV. Neville Hall Hospital	yes	
NGS. Northern General Hospital Sheffield	yes	yes
NHB. Royal Brompton Hospital	yes	yes

NHH. Basingstoke & North Hampshire Hospital	yes	yes
NMG. North Manchester General Hospital	yes	
NMH. North Middlesex University Hospital	yes	
NOR. Norfolk & Norwich University Hospital	yes	yes
NPH. Northwick Park Hospital	yes	yes
NTH. Northampton General Hospital	yes	yes
NUN. George Eliot Hospital	yes	
OAK. Oaks Hospital Colchester	yes	
OHM. Royal Oldham Hospital	yes	yes
PAH. Princess Alexandra Hospital Harlow	yes	
PAP. Papworth Hospital	yes	yes
PCH. Prince Charles Hospital	yes	
PET. Peterborough City Hospital	yes	
PGH. Poole Hospital	yes	
PHB. BMI The Priory Hospital Birmingham	yes	yes
PIL. Pilgrim Hospital	yes	yes
PIN. Pinderfields General Hospital	yes	yes
PLY. Derriford Hospital	yes	yes
PMS. The Great Western Hospital	yes	yes
POW. Princess of Wales Hospital	yes	
QAP. Queen Alexandra Hospital	yes	yes
QEB. Queen Elizabeth Hospital Birmingham	yes	yes
QEG. Queen Elizabeth Hospital Gateshead	yes	
QEQ. Queen Elizabeth the Queen Mother Hospital	yes	yes
RAD. John Radcliffe Hospital	yes	yes
RCH. Royal Cornwall Hospital	yes	yes
RDE. Royal Devon & Exeter Hospital	yes	yes
RFH. Royal Free Hospital	yes	yes
RGH. Royal Glamorgan Hospital	yes	yes
RHI. Calderdale Royal Hospital	yes	yes
RLU. Royal Liverpool University Hospital	yes	
ROT. Rotherham Hospital	yes	
RPH. Royal Preston Hospital	yes	
RSC. Royal Sussex County Hospital	yes	yes
RSS. Royal Shrewsbury Hospital	yes	
RSU. Royal Surrey County Hospital	yes	yes
RUS. Russells Hall Hospital	yes	yes

SAL. Salisbury District Hospital	yes	yes
SAN. Sandwell General Hospital	yes	yes
SCA. Scarborough Hospital	yes	
SCM. The James Cook University Hospital	yes	yes
SCU. Scunthorpe General Hospital	yes	
SDG. Stafford Hospital	yes	
SEH. Southend University Hospital	yes	yes
SGH. Southampton General Hospital	yes	yes
SHH. Stepping Hill Hospital	yes	
SJL. St James Hospital Leeds	yes	
SLF. Salford Royal Hospital	yes	
SOL. Solihull Hospital	yes	
SPH. St Peters Hospital	yes	yes
STD. South Tyneside District Hospital	yes	
STH. St Thomas Hospital	yes	yes
STM. St Marys Hospital Paddington	yes	yes
STO. University Hospital of North Staffs	yes	yes
STR. St Richards Hospital	yes	yes
SUN. Sunderland Royal Hospital	yes	
TGA. Tameside Hospital	yes	
TLF. Princess Royal Hospital Telford	yes	yes
TOR. Torbay Hospital	yes	yes
TRA. Trafford General Hospital	yes	
UCL. University College Hospital	yes	yes
UHW. University Hospital of Wales	yes	yes
VIC. Blackpool Victoria Hospital	yes	yes
WAL. University Hospital Coventry	yes	yes
WAR. Warwick Hospital	yes	yes
WAT. Watford General Hospital	yes	yes
WDG. Warrington Hospital	yes	
WDH. Dorset County Hospital	yes	yes
WES. Chelsea & Westminster Hospital	yes	yes
WEX. Wexham Park Hospital	yes	yes
WGH. Weston General Hospital	yes	
WGK. Westmoreland General Hospital	yes	
WHC. Whipps Cross University Hospital	yes	
WHH. William Harvey Hospital	yes	yes

WHI. Whiston Hospital	yes	
WIR. Arrowe Park Hospital	yes	
WMH. Walsall Manor Hospital	yes	yes
WRC. Worcestershire Royal Hospital	yes	yes
WRG. Worthing Hospital	yes	yes
WRX. Maelor Hospital Wrexham	yes	yes
WWG. Glangwili General Hospital	yes	
WYT. Wythenshawe Hospital	yes	yes
YDH. The York Hospital	yes	
YEO. Yeovil District Hospital	yes	
YKC. The Yorkshire Clinic	yes	yes