



National Joint Registry

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Working for patients, driving forward quality

# National Joint Registry for England, Wales, Northern Ireland and the Isle of Man

**RIAP-NJR INTERNATIONAL WORKSHOP**  
**1st March 2018**

**AIMS AND ORGANISATION OF THE NJR**

**ELAINE YOUNG-DIRECTOR OF OPERATIONS**





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**NJR HOSTED BY HQIP**



**HQIP** Healthcare Quality  
Improvement Partnership

## Partnership of

- Academy of Medical Royal Colleges
- Royal College of Nursing
- National Voices



- Established by the Department of Health in 2002 following 3M Capital Hip Failure Report, 2001
- Data collection commenced April 2003 (now in 15<sup>th</sup> year) for hip and knee in England and Wales
- Extended to ankles (2010) elbows and shoulders (2012); Northern Ireland (2013) and the Isle of Man (2015)
- Largest database of its kind in the world, currently with c 2.5 M records (c 250k records submitted annually)



- Self-funding [No central government budget]

## **Pre 2014 income raised through:**

- Hospital levy on sale of components
- Industry collected the levy on behalf of the NJR
- Manufacturers received all data free

## **Post 2014 New Economic Model**

- Aims: Fairness and Equity-reduce cost to Hospitals
- Hospital and Industry Subscription
- NJR collect income
- Industry access data through NJR Supplier Feedback and bespoke supplier reports



To collect high quality, relevant data about joint replacement surgery in order to provide early warning of issues relating to patient safety, to improve quality of outcomes and ensure quality and cost effectiveness of joint replacement surgery, monitor and report on outcomes and enable related research

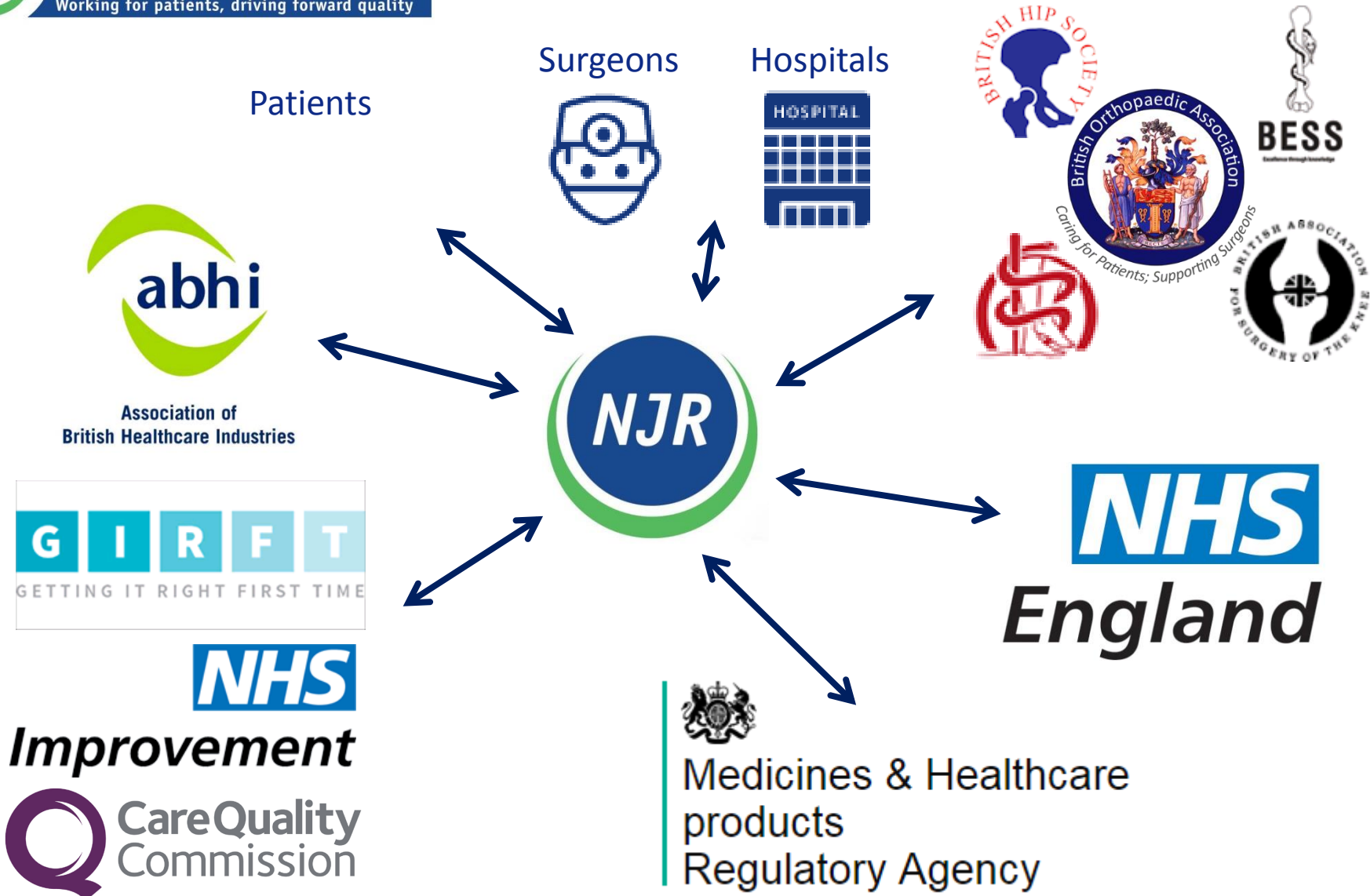


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# The wider landscape



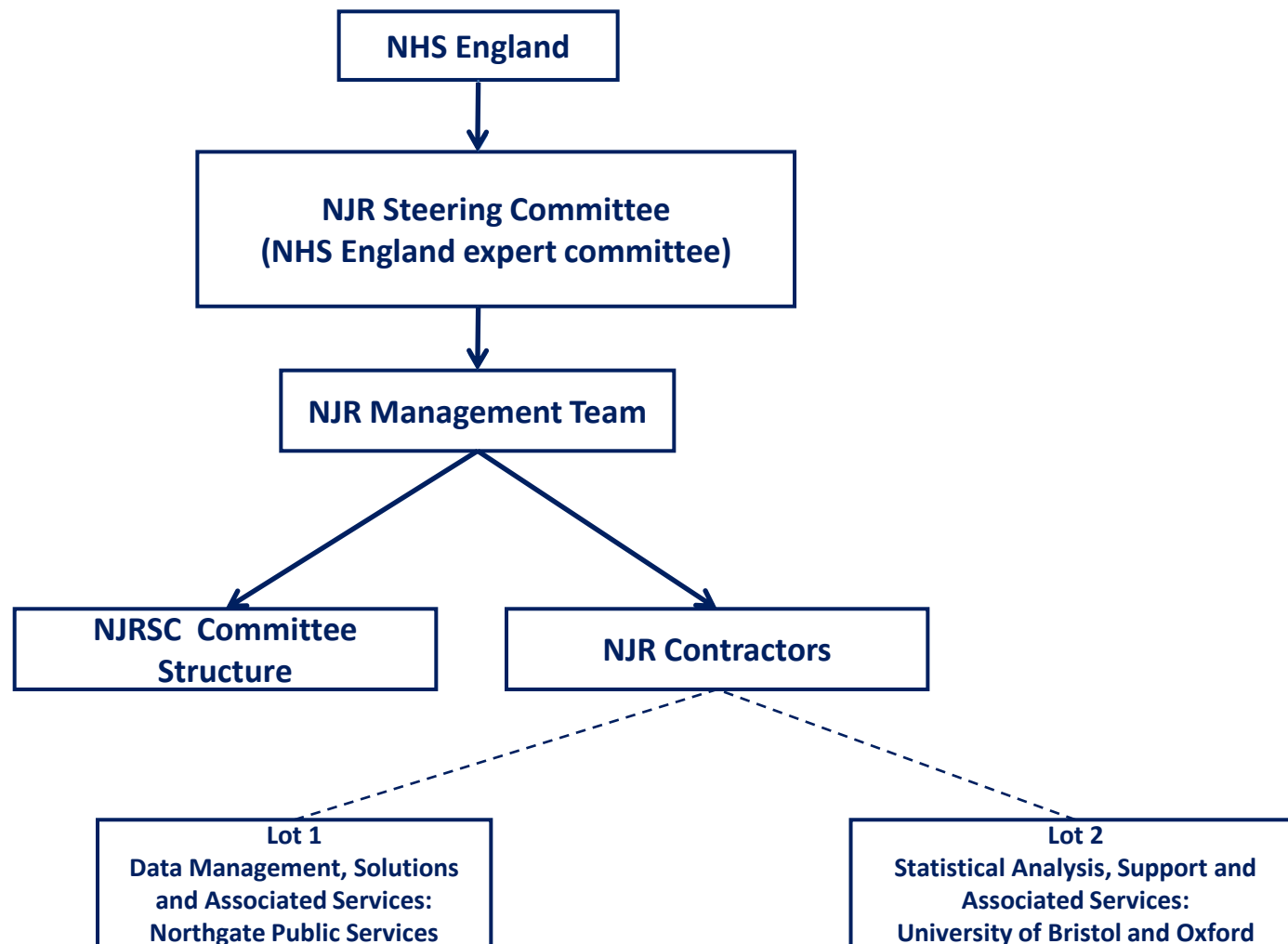


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# NJR Organisation Structure





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# Governance Structure

## NJR Steering Committee

**Classification: NHS England Expert Committee**

**Chairman reports to NHS England Medical Director**

**Members appointed by DH Appointments and NHSE Medical Director**

### Membership-13 Members

- Chairman
- Medical Director / Vice Chair
- 3 surgeon members
- 2 patient representatives
- 2 orthopaedic implant supplier representatives
- 1 public health and epidemiology representative
- 1 practitioner with special interest in orthopaedics
- 1 NHS Trust management representative
- 1 independent healthcare sector representative





- **6 Co-opted members**
  - BOA President
  - National Clinical Director for Quality and Efficiency (GIRFT)
  - Welsh government representative
  - NJR Regional Clinical Coordinator Committee Chair
  - MHRA
  - Procurement
- **9 Attendees**
  - NJR/HQIP Management Team Representatives
  - Lot 1 Contract (Northgate) representatives
  - Lot 2 Contract (UoB/Oxford) representatives



## Support Structure

- NJR Helpdesk c 5,000 calls per year
- 8 NJR Regional Coordinators
- 28 NJR Regional Clinical Coordinators
- 66 NJR Clinical Leads
- 2 NJR Research Fellows

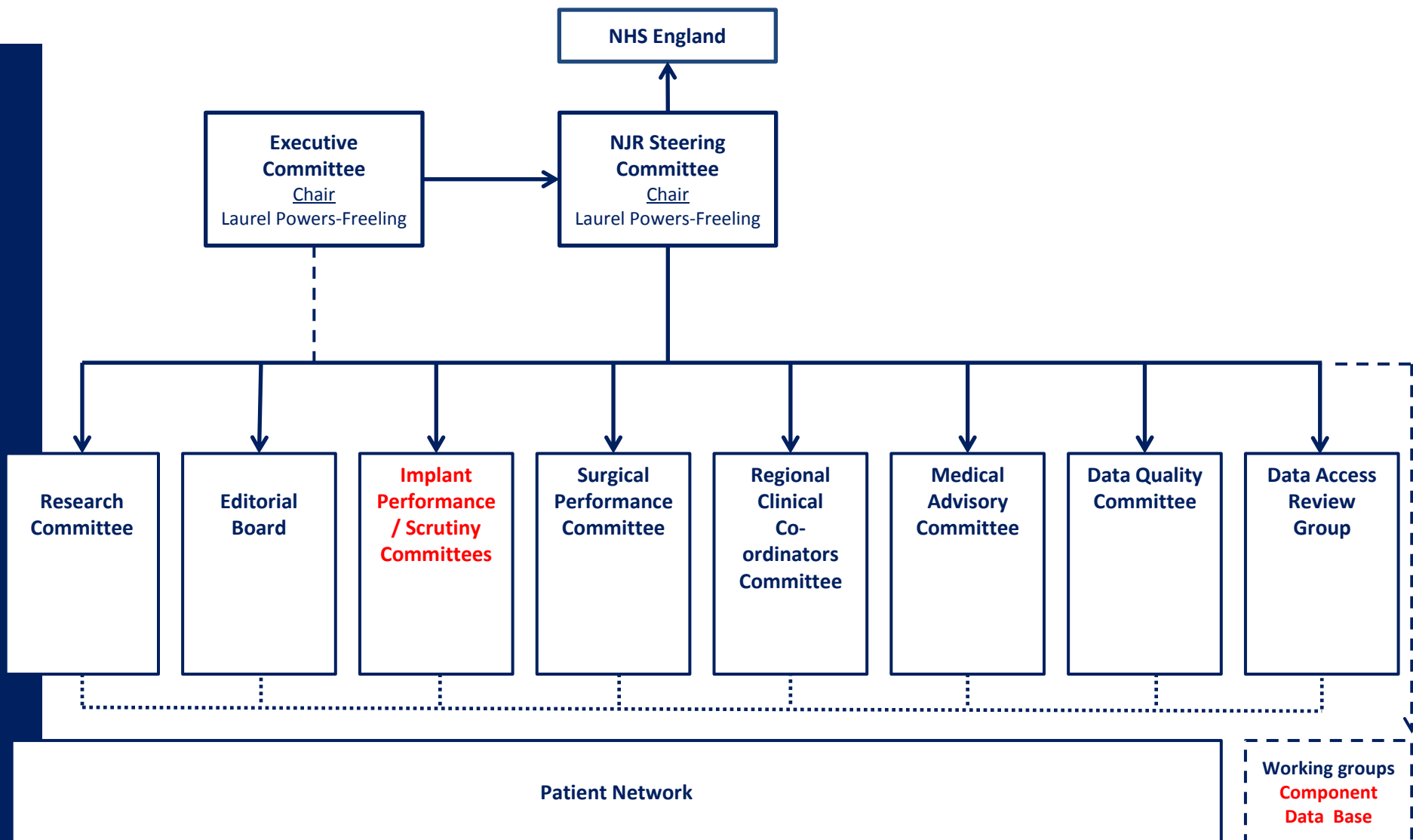


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# NJR Committee Structure





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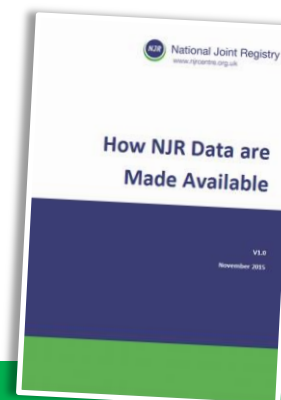
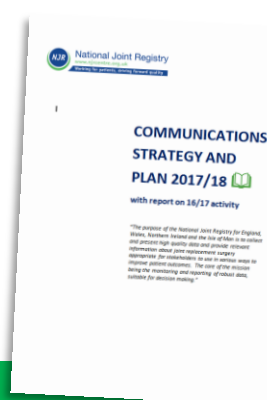
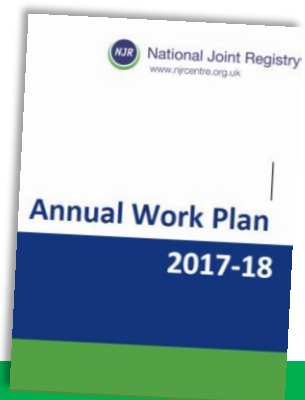
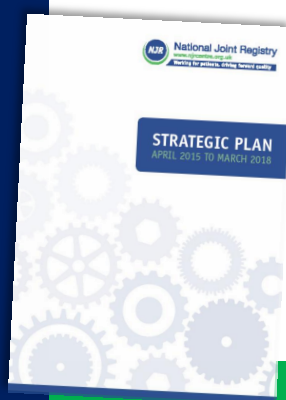
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# NJR Strategic Documents

## Key Strategy Documents are:

- Strategic Plan 2018-2021
- Annual Work Plan
- Research Strategy
- Communications Strategy
- Supporting Data Quality Strategy
- How NJR Data are Made Available





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# NJR Patient Leaflets

## Development of the Public and patient guides

Now available by each joint type and reflecting the level of information available in the NJR, has continued



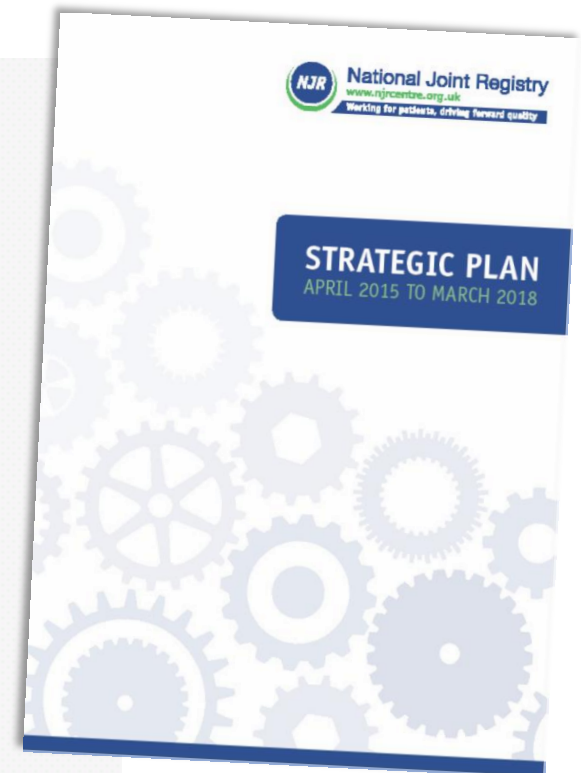
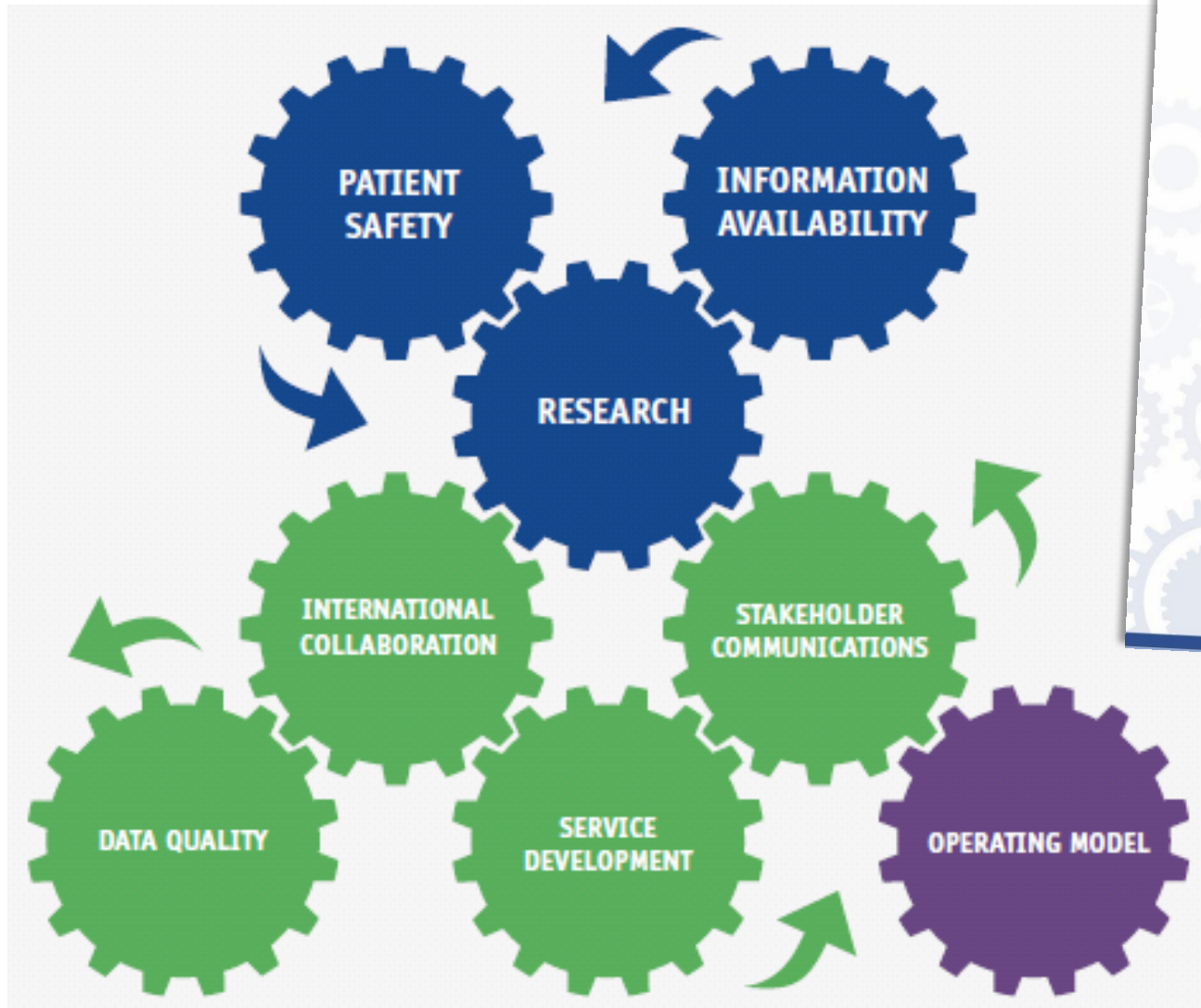


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# NJR Strategic Plan 2018 - 2021





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# How NJR data are made available

## Annual Report

### PURPOSE:

Published in September each year

Presents analysis of data submitted to the NJR, highlighting aims and achievements of the NJR its Steering Committee and sub-committees.

Key trends in surgical practice, activity levels, implant usage and patient demographics are presented, also chosen specialist research topics.



# Online Annual Report

## PURPOSE:

Provides interactive access to content from the NJR Annual Report, providing visitors with ability to analyse and compare data across years, and to filter and segment results to a greater extent than that available through the printed report.

Aims to reduce the size of the printed Annual Report, through dynamic, interactive web content.







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# How NJR data are made available

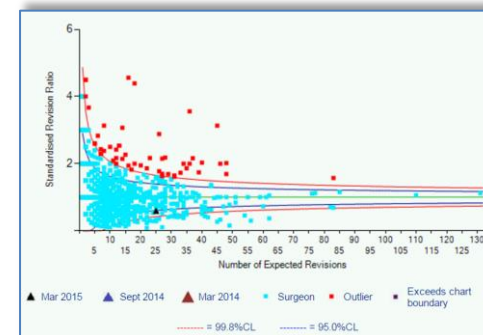
## Clinician Feedback

### PURPOSE: Allows clinicians

To review their data recorded on the NJR through a series of interactive graphs, charts, reports and data tabulations.

To review their outcomes data, to assess whether this is within the expected range.

To preview their data and results prior to publication on the NJR Surgeon Hospital Profile website.





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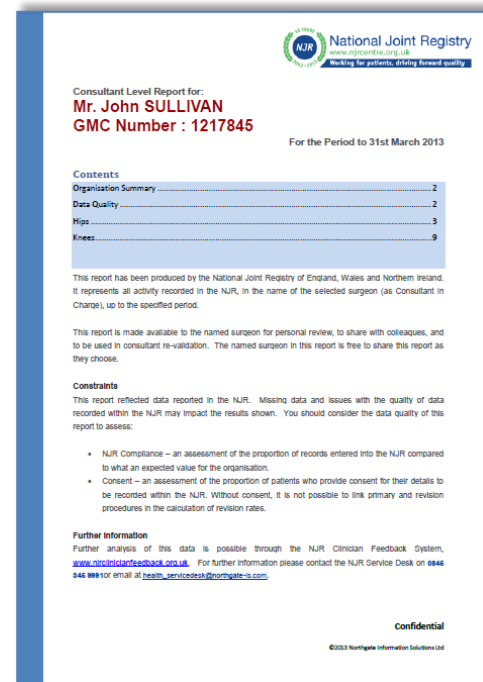
# How NJR data are made available

## Consultant Level Report

### PURPOSE:

Accessed through Clinician Feedback, provides clinicians with a downloadable PDF Report summarising their activity and outcomes.

The report has been designed specifically to support use in consultant appraisal / revalidation.





## Management Feedback

### PURPOSE:

Allows trusts / hospitals / hospital groups to review their activity and outcome data recorded on the NJR through a downloadable report.

National Joint Registry <a href="http://www.njrcentre.org.uk">www.njrcentre.org.uk</a>	
Indicator Summary	
Trust Compliance	
Indicator 1 – Compliance Rate	
Dunedin Hospital	
Indicator 4 – Hospital SRR (Hips)	
Indicator 5 – Hospital SRR (Knees)	
Indicator 6 – Hospital SMR (Hips)	
Indicator 7 – Hospital SMR (Knees)	
Elland Hospital	
Indicator 4 – Hospital SRR (Hips)	
Indicator 5 – Hospital SRR (Knees)	
Indicator 6 – Hospital SMR (Hips)	
Indicator 7 – Hospital SMR (Knees)	
Fylde Coast Hospital	
Indicator 4 – Hospital SRR (Hips)	
Indicator 5 – Hospital SRR (Knees)	
Indicator 6 – Hospital SMR (Hips)	
Indicator 7 – Hospital SMR (Knees)	
Hull and East Riding Hospital	
Indicator 4 – Hospital SRR (Hips)	
Indicator 5 – Hospital SRR (Knees)	
Indicator 6 – Hospital SMR (Hips)	
Indicator 7 – Hospital SMR (Knees)	
Methley Park Hospital	
Indicator 4 – Hospital SRR (Hips)	
Indicator 5 – Hospital SRR (Knees)	



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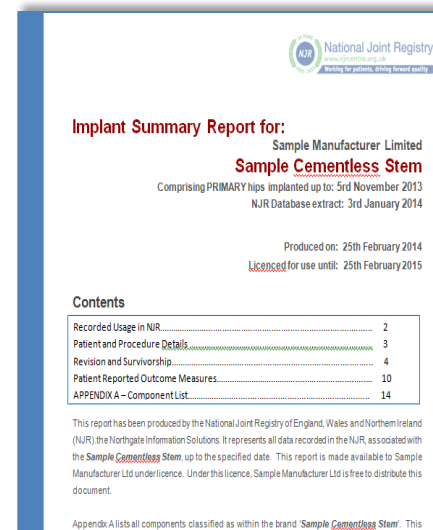
# How NJR data are made available

## Supplier Feedback

### PURPOSE:

Provides medical device suppliers access to data and reports on the use of their implants, and outcomes for patients receiving their implants.

Allows suppliers to assure on-going safety, quality and appropriate usage of their implants, as well as tracking product sales within the market.





## Surgeon Hospital Profile

### PURPOSE:

Public website profiling surgeon and hospital activity and outcomes data based on NJR Data.

Allows patients and public to look up hospitals or surgeons and review the number and type of cases performed and outcomes achieved.

Website developed as part of the NHS England Consultant Outcomes Publication initiative.

The screenshot shows the 'Hospital Profile' section of the National Joint Registry website. The header includes the NJR logo, the text 'National Joint Registry', the website URL 'www.njrcentre.org.uk', and the tagline 'Working for patients, driving forward quality'. It also specifies the focus: 'for hip, knee, ankle, elbow and shoulder joint replacement surgery'. The main heading is 'Hospital Profile'. Below this, a green banner states 'I want to look at a surgeon or hospital by:'. Underneath, there are two search options. The first, 'The information I have to hand', includes a prompt 'Fill in one or more of the fields below:' and three input fields: 'Consultant Name', 'Consultant General Medical Council code(GMC)', and 'Hospital Name', followed by a 'SEARCH' button. The second option, 'Region', includes a prompt 'Alternatively you can also search by clicking a region:' and a map of the United Kingdom divided into regions: Northern Ireland, North East, Yorkshire and the Humber, East of England, London, South East, South West, West Midlands, East Midlands, North West, and Wales. At the bottom, there are two buttons: 'A-Z OF HOSPITALS' and 'A-Z OF SURGEONS'.



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# How NJR data are made available

## Research

### PURPOSE:

NJR is a resource made available to external researchers conducting new and clinically relevant research related to joint replacement

Research projects wishing to use NJR data are classified as external, independent, or internal or collaborative projects (NJR Partnership Projects).

All applications for research projects are managed by the NJR Research Committee

NJR Data Access Portal is currently in development

THE LANCET

thebmj



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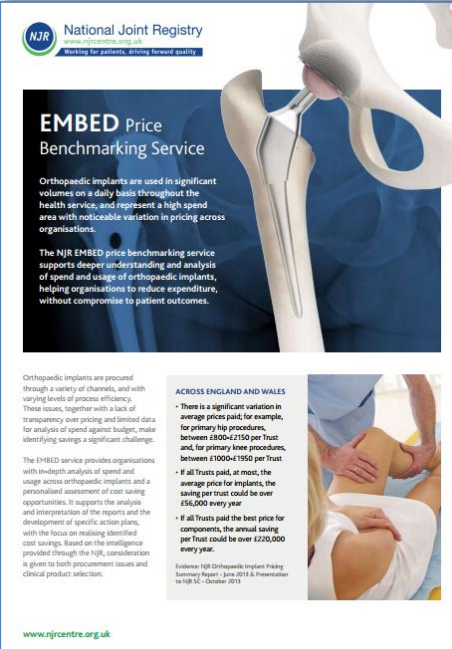
## Price Benchmarking

### PURPOSE:

Trusts and hospital groups able to submit pricing catalogues for implants to the NJR

Price benchmarking reports produced comparing local implant costs with national average, best quartile, and best pricing.

Option to subscribe to enhanced service 'Embed' providing additional analysis, including provision of surgeon level data packs, feeding back implant costs to each surgeon within the trust or group.



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### EMBED Price Benchmarking Service

Orthopaedic implants are used in significant volumes on a daily basis throughout the health service, and represent a high spend area with noticeable variation in pricing across organisations.

The NJR EMBED price benchmarking service supports deeper understanding and analysis of spend and usage of orthopaedic implants, helping organisations to reduce expenditure, without compromise to patient outcomes.

Orthopaedic implants are procured through a variety of channels, and with varying levels of process efficiency. These issues, together with a lack of transparency over pricing and limited data for analysis of spend against budget, make identifying savings a significant challenge.

The EMBED service provides organisations with in-depth analysis of spend and usage across orthopaedic implants and a personalised assessment of cost saving opportunities. It supports the analysis and interpretation of the reports and the development of specific action plans, with the focus on realising identified cost savings. Based on the intelligence provided through the NJR, consideration is given to both procurement issues and clinical product selection.

#### ACROSS ENGLAND AND WALES

- There is a significant variation in average price paid, for example, for primary hip procedures, between £800-£2150 per Trust and, for primary knee procedures, between £1000-£1950 per Trust
- If all Trusts paid, at most, the average price for implants, the saving per Trust could be over £56,000 every year
- If all Trusts paid the best price for components, the annual saving per Trust could be over £220,000 every year

Embedder 100 Orthopaedic Implants Pricing Summary Report - June 2018 & Presentation to NHF SC - October 2017

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## Third Party Usage-EXAMPLES:

- NHS Choices
- NHS Improvement
- Care Quality Commission [Hospital Regulator]
- MHRA [Device Regulator]
- Beyond Compliance
- ODEP





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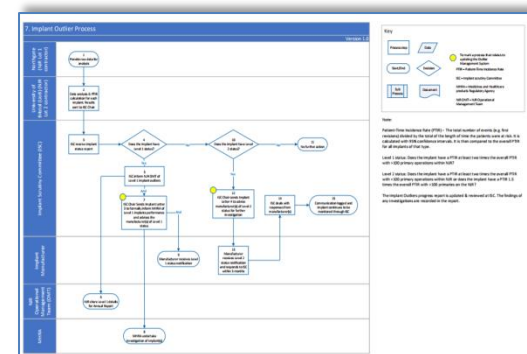
# A&T Model



## NJR ACCOUNTABILITY AND TRANSPARENCY MODEL

- Alert and Alarm Surgeon Process ►
- Alert and Alarm Unit (Hospital) Process ►
- Surgeon Appraisal Enhancement Process ►
- Implant Outlier Process ►
- Implant Mismatch Notification Process ►

- New model ensures NJR data is being integrated across a regulatory and professional framework, with the NJR robustly supporting surgeons and hospitals to keep within safe performance limits.
- Significant consultation with regulators, professional bodies societies.
- Driving greater patient safety and quality of care for patients
- Five key monitoring processes.





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NJR Website

<http://www.njrcentre.org.uk/njrcentre/Default.aspx>



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- [Healthcare providers](#)
- [Surgeons](#)
- [Research](#)
- [Implant procurement](#)

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## Welcome from the National Joint Registry for England, Wales, Northern Ireland and the Isle of Man

Hip, knee, ankle, elbow and shoulder joint replacements are common and highly successful operations that bring many patients relief from pain and improved mobility. Thousands of these joint replacement operations take place in the UK every year.

The National Joint Registry (NJR) was set up by the Department of Health and Welsh Government in 2002 to collect information on all hip, knee, ankle, elbow and shoulder replacement operations, to monitor the performance of joint replacement implants and the effectiveness of different types of surgery, improving clinical standards and benefiting patients, clinicians and the orthopaedic sector as a whole. Northern Ireland joined in 2013 and the Isle of Man in 2015.



#### StatsOnline

[View and download NJR statistics.](#)

[>StatsOnline](#)

#### NJR Data Entry System

[Enter data into the NJR](#)

[> Data Entry System](#)

#### Patient information

[▶ Patient website pages](#)