

The British Spine Registry (BSR)

At a Glance:

The British Spine Registry (BSR) continues to enhance spinal care across the UK by facilitating high-quality data collection and analysis for clinicians, hospitals, and patients. In 2022, the registry saw significant growth in participation, supporting improved patient outcomes and research through structured clinical and patient-reported data. By streamlining data submission and compliance with regulatory standards, BSR enables clinicians to monitor long-term treatment effectiveness, enhance surgical decision-making, and drive continuous improvements in spinal healthcare.

Introduction:

When the decision was made at BritSpine in Liverpool in 2010 to set up a Spinal registry, the task was led by Ashley Cole and Lee Breakwell, two leading spinal surgeons. Their objective was to have a simple to use system for collecting, monitoring and analysing extensive datasets relating to spinal procedures, treatment and patient recovery; all of which needed to be part of everyday working practices. The registry needed to provide meaningful insights for clinicians, support research, and be easy to report on, ultimately driving improvements in patient care. After a rigorous tender process, Amplitude Clinical Outcomes was identified as the technology partner.

Background:

Comprehensive Data Collection: The British Spine Registry (BSR) is a web-based platform that collects nationwide data across seven major spinal pathways, with the first patient data entered in 2012.

Driving Clinical Insight & Best Practice: By gathering detailed intervention and patient-reported outcomes, the BSR enables clinicians to analyse surgical success rates, identify trends, and drive continuous improvement in spinal care.

Efficient & Scalable Data Capture: Powered by Amplitude, the platform allows spinal surgeons to collect rich, high-quality data with minimal time and effort, making it one of the most effective clinical outcomes registries in the UK.

The Approach

Understanding Clinical Needs:

Amplitude has worked closely with Ashley Cole and Lee Brackwell to tailor the system for spinal procedures in the UK, ensuring it met the specific clinical evaluation and reporting requirements of spine specialists.

Designed for Accessibility & Engagement:

To maximise adoption by both clinicians and patients, the platform needed to be intuitive, accessible, and cost-effective—ensuring ease of use without compromising on functionality.

Integrated Clinician & Patient Data Entry:

The platform enables both clinicians and patients to enter data at multiple points along the care pathway, making it one of the first fully integrated clinical systems that actively involves both groups.

Comprehensive Outcome Monitoring:

The BSR supports pre- and post-intervention outcome scores necessary for spinal treatment, allowing clinicians to track both basic operative data and detailed clinical outcomes, giving them full control over their data and reporting.

User-Friendly & Patient-Centric Platform:

The system features a simple homepage, secure navigation, and medically intuitive design, keeping patient care central to the process and making data entry seamless.

The Results

Growing Compliance: The BSR has been widely adopted by spine surgeons across the UK. A decade on, compliance continues to grow, allowing for meaningful data analysis to identify areas for improvement, best practice and training needs.

Mandatory use for Complex Spine Surgery: Since 2016, BSR usage has been a requirement for all complex spine surgeries as part of Specialist Commissioning, ensuring consistent data collection.

Benchmarking Through GIRFT Collaboration: Since 2017, the GIRFT programme has worked with the BSR to compare unit-level surgical workload recording, helping standardise and improve data submission rates.

Financial Incentives for Compliance: 2018 - The Spinal CQUIN introduced financial incentives for hospitals demonstrating patient entry into the registry. 2019 - Best Practice Tariff (BPT) was implemented withholding part of the tariff for cases not entered into the BSR, reinforcing the importance of compliance.



Amplitude *pro registry*TM Highlights:

- Specialty specific
- Supports all pre and post-intervention outcome scores
- Highest levels of security
- Data Exchange – For users wanting to retain their registry data within their own hospital or as an individual, but still submit that data, they can use the Data Exchange functionality. Data is captured once, within the user's system and then sent electronically to the BSR and any other registries necessary.
- Digital solution – allows instant access to data
- Intuitive and simple to use
- Cost effective and easily accessible
- Funnel Plots – Each surgeon's overall performance, as measured by their patient's average improvement, is displayed in a Funnel Plot (anonymously) enabling them to compare their individual performance against all of the other users of the registry.

Contact us today to learn more about how Amplitude's *pro enterprise*TM platform can help your organisation enhance compliance, streamline workflows, and improve patient care.