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The Role of EPR Systems in Transforming NHS Healthcare and How Armis Can Help

What is an EPR System, and Why Does It Matter?

An **Electronic Patient Record (EPR) system** is core to modern healthcare. It consolidates patient information—diagnostic results, treatment histories, care plans, and more—into one unified platform. This seamless access to accurate, real-time data transforms healthcare delivery by improving operational efficiency, reducing delays, and enabling informed clinical decisions.

For the NHS, EPR systems are increasingly becoming a fundamental tool for achieving better patient outcomes and addressing systemic challenges, like meeting the government's goal of reducing waiting times to under 18 weeks from referral to treatment. As the government invests £2 billion in NHS technology and digital improvements, EPR systems are positioned to drive productivity, streamline workflows, and improve collaboration across healthcare providers.

The NHS Investment Context

The most recently released budget numbers signal a transformative moment for the NHS. With an additional £25.7 billion allocated over the next two years, the focus is clear: reduce waiting times, enhance capacity, and modernize care delivery. Among these investments, the digital transformation of the NHS—powered by initiatives like EPR systems—is highlighted as critical for long-term success.

Addressing the Challenges of EPR Systems

While the potential for EPR systems is high, there are several key challenges including:

- **Cybersecurity Risks** - EPR systems contain some of the most sensitive data in healthcare. Protecting this data from ransomware attacks and other threats is critical.

- **Operational Downtime** - Unplanned EPR disruptions can jeopardize care coordination, delivery and patient safety.

- **Interoperability** - Integrating EPR platforms across diverse NHS facilities, regions, and care settings is critical for facilitating information sharing and ease of use for clinicians rather than having silos of non-integrated systems.

- **Regulatory Compliance** - Protecting patient data is essential for demonstrating compliance. Technology solutions should proactively navigate GDPR, data sovereignty, and other regulatory frameworks while maintaining operational resilience.

How Armis Empowers the NHS

At Armis, we understand the critical role EPR systems play in healthcare transformation and the unique challenges they face. Armis Centrix™ provides the visibility, security, manageability and operational assurance needed to ensure EPR systems deliver on their promise without compromise.

✓ Unparalleled Asset Visibility

Armis provides real-time visibility into every connected asset in the healthcare ecosystem—from medical devices to IT systems and IoT sensors. This ensures NHS Trusts and Integrated Care Boards (ICBs) have a complete, actionable view of the devices supporting their EPR systems.

✓ Proactive Cybersecurity and Threat Mitigation

Armis's continuous monitoring detects and neutralizes threats before they impact operations. By protecting against ransomware, data breaches, and unauthorized access, we safeguard the integrity of patient data and the availability of critical systems.

✓ Ensuring Operational Continuity

With Armis, NHS Trusts can monitor device performance and proactively address potential issues to prevent system degradation or downtime. This operational assurance ensures clinicians have uninterrupted access to EPR systems, enabling timely and effective care.

✓ Streamlined Compliance Management

From GDPR to local data sovereignty requirements, Armis helps healthcare providers maintain proactive compliance by identifying, deduplicating, contextualizing, prioritizing and mitigating vulnerabilities and other security findings in order to reduce unacceptable risk while ensuring data flows remain secure, and simplifying audit processes.

## ✓ Support for Interoperability and Scalability

Armis Centrix™ ability to map and manage complex device ecosystems ensures that EPR systems integrate seamlessly across departments and facilities, supporting the NHS's vision of a highly interconnected, efficient healthcare network.

A Secured Healthcare Delivery Foundation for the Future

The NHS's investment in technology, particularly EPR systems, isn't just about modernizing healthcare; it's about building a secured, resilient, scalable foundation for the future. These systems will enable the NHS to meet growing patient demands, reduce waiting times, and deliver better outcomes—but only if they are deployed and secured effectively.

By providing the visibility, protection, and manageability needed to support EPR systems, Armis empowers the NHS to maximize its investment and achieve its long-term vision. To build a digital healthcare ecosystem that's efficient, secure, and truly transformative for both patients and providers.
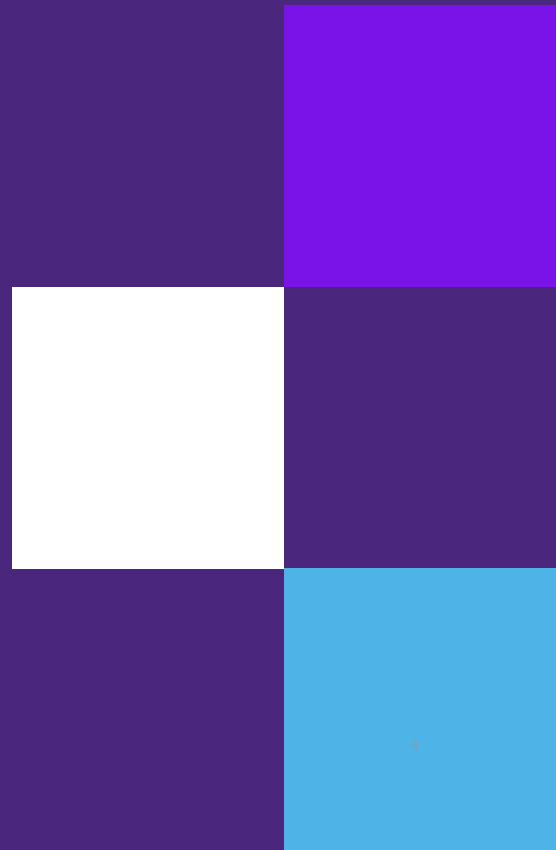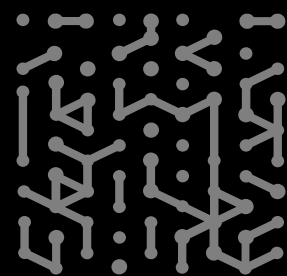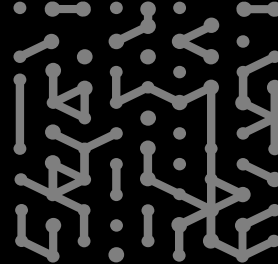
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Armis, the cyber exposure management & security company, protects the entire attack surface and manages an organization's cyber risk exposure in real time.

In a rapidly evolving, perimeter-less world, Armis ensures that organizations continuously see, protect and manage all critical assets - from the ground to the cloud. Armis secures Fortune 100, 200 and 500 companies as well as national governments, state and local entities to help keep critical infrastructure, economies and society stay safe and secure 24/7.

Armis is a privately held company headquartered in California.

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