



case study

MEDICAL DEVICE MANAGEMENT SERVICES

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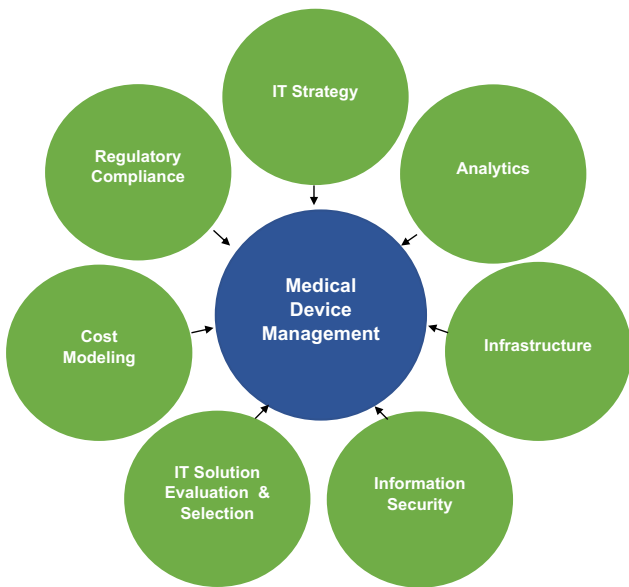
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Effectively managing medical devices across the enterprise is challenging

and remains a problem that has been largely neglected by hospitals, health systems, device makers, and health IT software vendors alike.

Impact Advisors brings deep expertise and years of experience in the critical domains essential for effective medical device management to help clients better visualize and understand their full clinical engineering (CE) inventory in real time to support informed decision-making.

The ability for hospitals and health systems to access even basic information about the medical devices they own continues to be a significant challenge. The problem is complicated though. There are a substantial number of different devices – and countless associated attributes – to keep track of, even just at a single hospital. Health systems may often have tens of thousands medical devices currently being used across the enterprise, with many hundreds of different categories and subcategories of equipment, each with its own target refresh cycles, mix of vendors, replacement costs, and patient safety considerations.

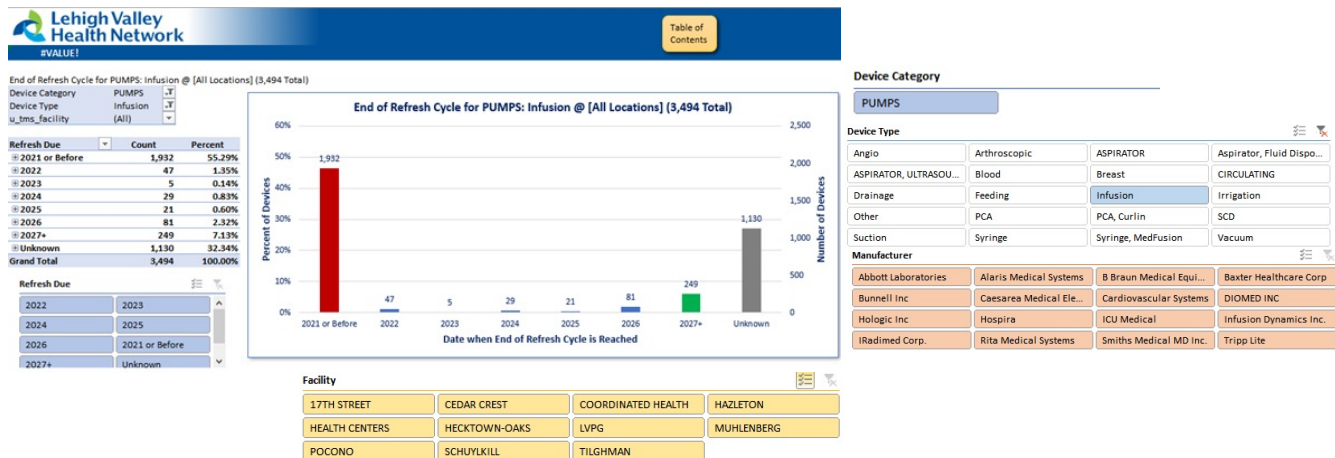


Impact Advisors Brings Years of Experience Across Critical Domains

Medical Device Inventory Visualization for Lehigh Valley Health Network

To help one of the largest health systems in the Northeast – Lehigh Valley Health Network (LVHN) – better visualize their complete medical device inventory of more than 50,000 devices, Impact Advisors developed a prototype for a robust data analytics toolkit for Clinical Engineering (CE). This decision support tool allows any authorized LVHN user to instantly view any or all characteristics of a single device or category of devices, at any location, for any manufacturer, etc. We built the tool in a manner such that as the health system’s new asset management system is populated with good data, our underlying database will update every CE view in real-time, with minimal to no manual intervention required.

Clinical Engineering Analytics Tool Prototype



The bottom line is that effective management of medical devices, whether accurately forecasting budget needs, responding to FDA recalls, or protecting against rapidly evolving cyber threats, requires a comprehensive, real-time enterprise device inventory that can fuel proactive, analytics-driven processes and provide an accurate depiction of overall risk. Impact Advisors brings years of experience across critical domains, a rigid yet flexible structure and process, and a customized framework to help hospitals and health systems with their unique clinical engineering challenges.

“Impact Advisors was able to immediately adapt to our unique medical device management challenges and helped us focus on addressing the top priorities and pressure points for our organization. They worked with us to refine our data model, identified the low hanging fruit for ‘quick wins,’ and provided a framework to help us make informed decisions more quickly and efficiently. Impact Advisors’ solution brought us tremendous value in a short period of time, but just as importantly, they’ve given us the structure, processes, and tools to ensure we will be able to effectively manage our full medical device inventory moving forward.”

– Frederick Armbruster, Vice President, Clinical Engineering & Applications, LVHN