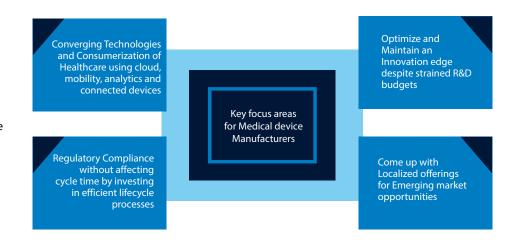


INFOSYS MEDICAL DEVICES PRACTICE | | | | | | | | | | | | | | | |

Overview

The medical device industry is witnessing transformational changes due to globalization, changing regulations and technology advancements. To succeed, device manufacturers need to focus on the following areas:



Service Offerings

Infosys has an extensive suite of offerings that cater to these needs, having successfully partnered with multiple clients through the complete medical devices value chain.

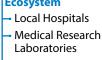
medical devices value chain.		
Hardware design and re-engineering	 Design & development of electronics hardware, embedded firmware and mechanical components Rapid prototyping BSP & device driver development Data acquisition and digital signal processing Device connectivity enablement and gateway development Sustenance engineering 	 CAPA analysis ROHS compliance DHF remediation Unique Device Identifier(UDI), Packaging and Labeling Emerging market research Supplier identification & qualification Value analysis and value engineering
Software Product Services	 End-to-end development services Engineering solutions for remote patient monitoring Data connectivity and integration using standard protocols GUI design and development Mobile based applications for patients and clinicians' use 	 Regulatory support services (DHF creation and 510(K) submission Product transformation services (globalization, legacy modernization, and cloud enablement) Product specialization services (CDCI and DevOps)
Verification and Validation	 End-to-end medical system verification Test automation Tools validation and qualification (OTS, SOUP qualification) 	 Application and firmware verification Verification of mobile medical applications
Product Lifecycle Management	 PLM consulting PLM strategy Process study Package evaluation PLM implementation Solution architecture Configuration & customization Deployment and roll out Application maintenance services 	PLM value chain services Integration Performance management Migration and upgrade Training and roll out support
Plant automation and control systems	Laboratory information management system Manufacturing intelligence and integration (MII)	Manufacturing execution systems / connected manufacturing Plant application support

Infosys advantage













DICOM

HDP

IEEE 11073

IHE Profiles

(LAW, IDCO etc)

Medical Devices • HL7 **CoE and Academy**

8500+ Engineering Practice **Medical Devices** Centre of

Excellence

Thought Leadership POCs Competency

Development

Infosys has strong expertise in design, development, verification and validation of Class I to Class III medical devices products covering software, embedded hardware, mechanical, firmware, and mobile applications. Some of the products and systems we have worked on are:

- Implanted pacemakers, ICD, and CRT devices, monitoring and programming devices
- Neuro-modulation devices like Spinal Cord Stimulation and Deep Brain Stimulation
- · On-body patch for collecting vital cardiac parameters
- Mobile apps and remote patient monitoring solutions
- Radiology products and work flow management systems

- · Electro-physiology devices
- Sleep apnea diagnostics and treatment devices
- · Glucometers for personal and hospital use, and personal care devices like BP monitors, pulse oximeters, heart-rate meters

For a medical device major in cardiac rhythm management space

Infosys Role

- Established offshore R&D center for Class I, II and III medical devices and applications
- Development and verification of remote monitoring system and clinician programmer devices
- · Mobile enabled access for clinician for alert monitoring

Key

• Reduction in the R&D cost for the client by 40-50%

Business

- Reduction in the product release life cycle by 40-45% thereby enabling more releases per year
- **Benefit** • Mobile based alert monitoring yielding improved patient outcome



For a device major in Sleep Apnea solution space

Infosys Role

• Partnered with client to develop next-gen data management solution for multiple Sleep Apnea therapy devices for monitoring progress and compliance of therapy by patients

Key **Business Benefit**

- Transformed legacy product architecture to a global, flexible and scalable architecture
- Helped client get FDA 510(K) clearance for the product



For more information, contact askus@infosys.com



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