MEDIGATE

CASE STUDY

How Parkland Health Transformed its Clinical Asset Ecosystem

Executive Summary

Parkland Health has been recognized for many healthcare excellence awards, including being one of the nation's "Most Wired™ Hospitals." Clinical Engineering (CE) leadership led a project aimed at transforming their connected asset management practices. It determined that they required an integrated and data-driven approach to asset and cybersecurity risk management.

After selecting Medigate, Parkland instantly enabled vulnerability correlations to medical devices, triggered remediation workflows, and improved CE workflows. With a track record of success, project leadership successfully promoted the benefits of their efforts with a steady flow of meaningful, value-driving workflow enhancements that spanned CE, Information Security (IS), Maintenance, and Supply Chain / Procurement. The functional return on investment was a key metric of success, and Parkland avoided significant capital expenditures through better utilization of existing devices.

Parkland

Company:
Parkland Health

Location:
Dallas, TX

Number of Beds:
787

Number of Hospitals:
1

Website:
parklandhospital.com

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"CDE enables all sorts of maintenance program benefits that we have already used to build business cases challenging scheduled capital spending. The data made clear we had room to improve the utilization of existing imaging systems and device fleets."

Travis Kobernick, Director, Clinical Engineering

Challenges

- Existing data validity did not meet the requirements of CE and IS teams.
- Existing workflows were unable to support leadership's strategic vision.
- Unable to dynamically update their computerized maintenance management system (CMMS).
- Significant change-management hurdles existed between isolated teams.
- Parkland allocated an insufficient budget to maintain project momentum and meet all expected outcomes.

Solution

After a thorough evaluation, Parkland Health selected Medigate as their Healthcare IoT security and data partner. They deployed Medigate's Core Visibility, Insights, and Anomaly Detection platform and enabled their Clinical Device Efficiency module.

- Dynamic interconnection with their CMMS system enabled an active record of truth.
- Advanced use-cases became achievable and allowed Parkland to accelerate its implementation timelines.
- Integration with their CMMS and cybersecurity tools improved overall device security.
- Parkland avoided large-scale capital expenditures through more efficient utilization of clinical and radiological devices.

Results

Parkland saved millions of dollars by applying their now accurate device data to common operational use-cases, such as device utilization. With a common data foundation, CE and IS teams now work together to improve operational efficiency and security.

- Accurate data allows for a better assessment of device needs and capital expenditures.
- Enhanced data empowers their existing security stack to operate more effectively.
- Knowledge of device attributes, security posture, and network status improved overall productivity.
- Asset utilization data improved supplier negotiations, maintenance, and capital planning processes.