

Tufts Medicine

Tufts Medicine Secures 21k+ Connected Medical & IoT Devices Across Four Locations



“Asimily is not just a technology vendor. They are a true security partner. The team is quick to respond to inquiries and feature requests as we build out and mature our Cybersecurity program.”

Brian Cayer

Chief Information Security Officer, Tufts Medicine

Tufts Medicine is a leading integrated health system bringing together the best of academic and community health care to deliver exceptional, connected and accessible care experiences to consumers across Massachusetts. Comprised of Tufts Medical Center, Lowell General Hospital, MelroseWakefield Healthcare, Tufts Medicine Care at Home, and an expansive network of clinically integrated physicians.

Challenge

Tufts Medicine observed a dramatic increase in U.S. hospital cyber attacks. Each of their locations was at a different maturity level, and they lacked visibility into their connected devices and vulnerabilities. They formed a new security team and restructured security operations to a centralized Information Technology team with dedicated security specialists. Tufts needed a way to passively scan medical devices, prioritize vulnerabilities, and streamline remediation efforts with their outsourced Clinical Engineering teams.

 4 Hospitals

 1,116 Beds

 21k+ Connected Devices

 15k+ Employees & Physicians

Tufts Medicine evaluated four IoMT cybersecurity vendors for the ability to:

- improve asset visibility through accurate detection of connected medical and IoT devices and inventory management capabilities;
- tailor workflow to their organizational processes;
- prioritize and remediate vulnerabilities;
- implement an effective incident response program;
- evaluate the cyber risk of devices prior to purchase;
- establish baseline metrics and performance KPIs including clear risk reduction metrics;
- gauge their organizational risk and compare it to industry standards; and
- be a strategic technology partner.

Solution

After a complete evaluation, Tufts Medicine selected Asimily because of its vulnerability management capabilities and viewed Asimily as a strategic technology partner.

Asimily Insight was deployed with five Edge processors at each location and integrations with Rapid 7 InsightVM for a holistic view of vulnerabilities across their environment, Azure AD for single sign-on, and Azure Sentinel (SIEM) for a single pane of glass view of threats across their organization. Key milestones included:

- connected medical devices were automatically detected and classified;
- existing vulnerabilities were identified and correlated to all impacted devices via passive scanning;
- clinically-validate remediation instructions were automatically delivered and prioritized for clinical engineering teams; and
- unauthorized devices were detected with automated workflows and alerts.

Tufts Medicine will continue to mature its security program by implementing:

- pre-procurement risk assessments using Asimily ProSecure;
- a deeper Incident Response workflow with their 24/7 SOC team via SIEM integration; and
- integrations with CrowdStrike for additional threat data from the devices, ServiceNow CMDB to enrich and reconcile device inventories, and Aruba ClearPass (NAC) to enable network enforcement and segmentation.

“Our main goal was to gain visibility into our medical and IoT device inventory. We prefer Asimily’s dashboard and data visualization. We now have accurate visibility into inventory. Vulnerabilities are prioritized through our Attack Surface Management (ASM) team.”

Brian Cayer

Chief Information Security
Officer, Tufts Medicine



Mitigate Medical Device Cyber Risk with Asimily

Asimily can help any healthcare provider drastically reduce medical device cyber risk while minimizing resource and time costs. [To see how Asimily can help your organization, arrange a demo today and a free Pre-procurement Risk Assessment for one model of your choice.](#)



About Asimily

Asimily is an industry-leading risk management platform that secures IoT devices for medical, diagnostic, life sciences, and pharmaceutical companies in the healthcare industry.

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