

Cyber Security Solutions for Healthcare



\$10.10 M

Average breach cost for consecutive 12 years

Verizon DBIR



53%

IoMT and IoT devices contain critical risks
Hacked IoMT device is a common source of breach

Cynerio



123%

Increase in Ransomware attacks in the past year

2021 SonicWall Cyber Threat Report

Digitization of Healthcare

Proliferation of an extensive range of digital health solutions such as Health, wearable tracking devices, telehealth & telemedicine, and custom-made medicine. (According to SOTI Research, 57% of IT professionals believe patient data security is more at risk than ever)

Valuable Information

Astounding increase in the volume of data generation with high monetary value and intelligence - patient-protected medical history, social security numbers, and data related to research and innovation. (Patient medical records sell for \$1k on the dark web)

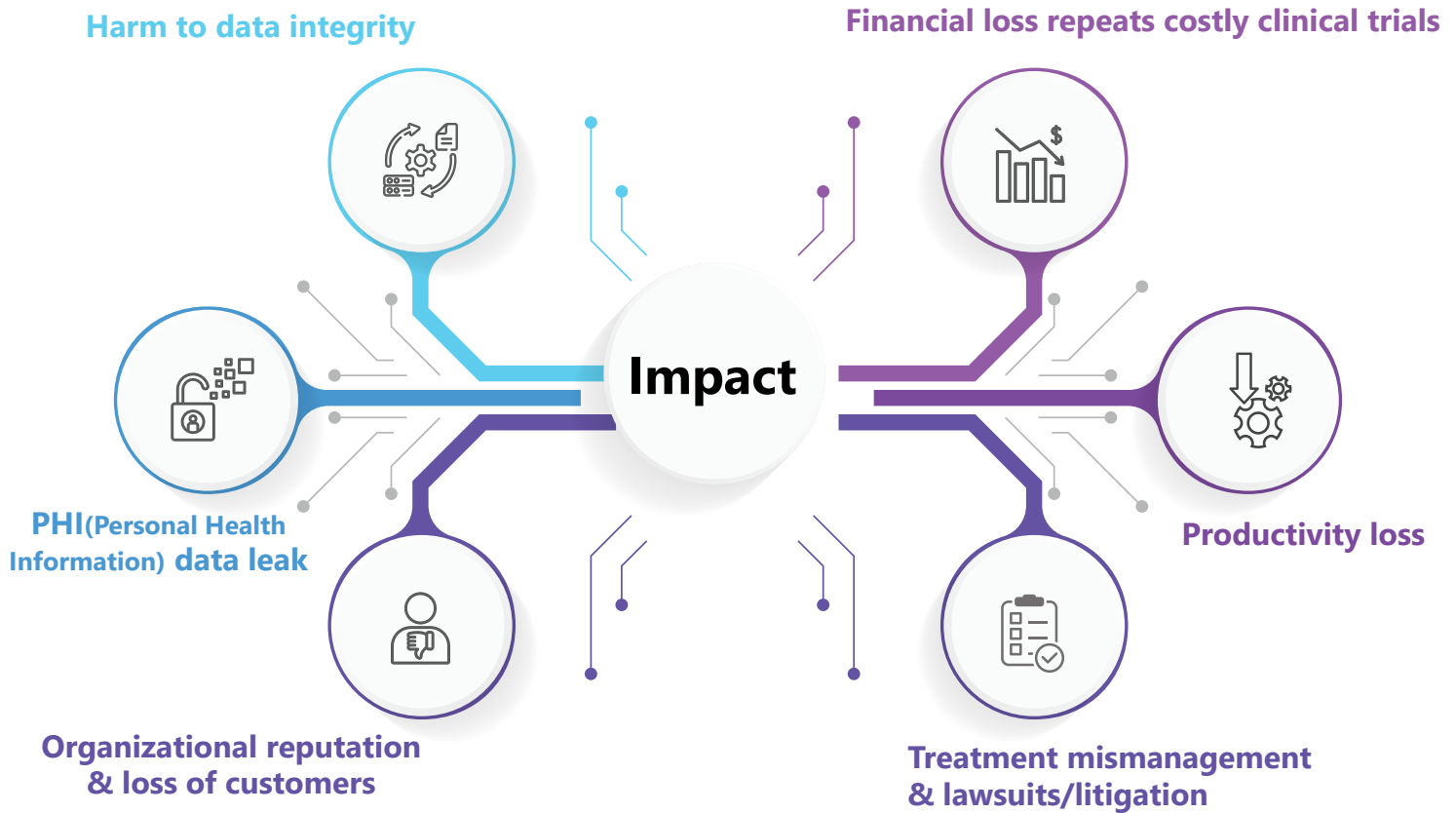


Legacy technology usage and lack of Security Awareness among Staff

Not all healthcare organizations are switching technologies or offering adequate training on security for their staff. (Only 35% of healthcare organizations have an awareness of when a device vendor's operating system is end-of-life or out-of-date)

Vulnerabilities in Medical Devices

Medical devices lack security and devices connected to elaborate networks lead to vulnerable endpoints. (According to Sensato, on average, 6.2% of vulnerabilities can be traced in each medical device)



Cybersecurity Measures and Best Practices

- Adopting tried and tested cyber security best practice framework
- Enforcing zero trust access controls
- Data security measures for safeguarding critical and PHI data
- Periodic patching of your devices, including IoMT (Internet of Medical things)
- Educating users about cybersecurity threats & their implications



Our Focused Services for the Healthcare Industry

PHI/EHR/ Critical Data discovery & Management

- PHI Data discover and usage
- Secure PHI/Sensitive data migration to cloud
- Requirement based dynamic access policies
- AI/ML based activity monitoring and threat detection

Identity, Access Management & Governance

- Access Management of IoMT (Internet of Medical Things)/Healthcare IoT devices
- Securing IoMT devices with Machine Identity Management
- HIPAA/HITECH Compliance

Advanced Threat Management

- Vulnerability and Patch management services
- Internet of Medical Things (IoMT) devices Vulnerability Management and Patching prioritization
- Threat modelling and security testing
- User cybersecurity awareness testing and training



Digital Risk Assessment

- HIPAA -Health Information Trust Alliance (HITRUST) audit readiness
- Continuous Compliance Monitoring and Compliance Automation
- Risk based assessment of the digital healthcare – Remote Patient monitoring, Telehealth etc.
- Cloud compliance assessment

Ransomware Readiness Assessment

- Cyber Security Evaluation Tool (CSET) and National Institute of Standards and Technology (NIST) based ransomware readiness assessment
- Ransomware simulated testing and report
- Incident response and tabletop exercise readiness.

Integrated Threat Monitoring & Management.

- Medical IOT threat monitoring and vulnerability identification
- Integration of IoMT and IT Security monitoring
- Health care specific use cases
- Health Insurance Portability and Accountability Act (HIPAA), General Data Protection Regulation (GDPR) and other compliance reporting

Our Success Stories



End-to-End Managed Security Services for a leading Healthcare Provider in the US

Value Delivered

- Integrated IT/IoMT threat monitoring
- Vulnerability assessment and patching automation of facility devices and periodic patching cycle of IoMT devices
- Reduced MTTD and MTTR by 70%
- SLA-based configuration and incident management
- Automation of IAM and PAM incidents with reduced incidents, increased efficiency gain by 33%



vCISO Services for a India based health care provider with presence in Cayman Islands

Value Delivered

- Comprehensive security assessment of the company's security posture through our vCISO service
- Established complete infosec policies
- Automation of compliance framework enabling early identification of risks and corresponding mitigation
- Reduced breach impact through a defined Incident response plan



HIPAA Compliance for a leading Healthcare Provider in the US

Value Delivered

- The Complete HIPAA and Cybersecurity Assessment
- Industry best practices in protecting PHI Data
- Unified compliance framework to reduce duplication of efforts
- Consistent quality assurance



HIPAA & ISO 27001 for a leading International Healthcare company

Value Delivered

- Planning & Risk Assessment
- ISO27001 and IT Act (India) 2008 and HIPAA
- Identification of risk mitigations

Technologies powering our Services

OneTrust

Privacy Assessment



Medical Device Security
MIOT/IOT security for
Medical Devices



Data Security
Compliance Automation



HIPPA Compliance

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For more information, visit - <https://www.happiestminds.com/services/cybersecurity-for-healthcare/>



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