



The Cybersecurity Battle in HEALTHCARE

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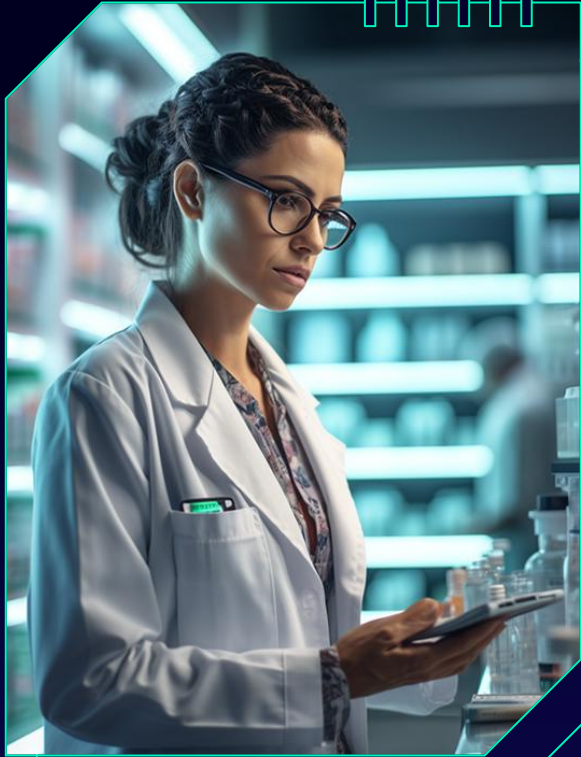
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INTRODUCTION

The importance of cybersecurity in healthcare, focusing on why the sector is a prime target for attacks, the strategies used to defend patient data and medical systems, and the role of social science principles and regulations.





Why is healthcare a prime target for hackers?

- Patient data is highly valuable
- High-tech medical devices pose risk
- Staff require minimal disruption to their day to day
- Security due diligence isn't a top priority



Defense strategies used to prevent hackers:



Conduct Frequent training and Penetration



Monitor Third- Party Access Closely



Make Cybersecurity Policies Official & Clear



Social Science Principles Connection to Cybersecurity in Healthcare

- Human behavior & Trust
- Policy & Regulations
- Relativism and Ethical Neutrality



Common Hacks

Social Engineering
Attacks

Malware &
Ransomware

Network Attacks





CONCLUSION

Cybersecurity in healthcare is more than a technical safeguard. It is essential to protect patient trust, safety, and public health. By understanding why healthcare is a prime target, implementing defense strategies, and integrating social science principles with regulatory frameworks such as HIPAA, organizations can build resilience against evolving threats. Ultimately, securing healthcare systems ensures that technology continues to serve its true purpose: caring for people.



Trivia Question for the Class

A nurse receives an urgent email that looks like it's from IT, asking her to click a link to "update her password. What kind of attack is this?

- A. Ransomware
- B. Phishing
- C. Denial of Service



Reference

<https://www.cisa.gov/topics/cybersecurity-best-practices/healthcare>

<https://tech.co/news/why-many-healthcare-companies-hacked>

<https://www.truenorthitg.com/how-to-prevent-cyber-attacks-in-healthcare/>

