

# MODERN CHALLENGES IN THE HEALTH CARE SECTOR

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# OVERVIEW

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- The healthcare system faces major cybersecurity issues such as ransomware attacks, data breaches, phishing, and insider threats. These threats can have serious outcomes like disrupting patient care, exposing sensitive information, and endangering patients' lives.
- The incorporation of technology in health care has made this sector susceptible to attacks. Digitized medical records and telehealth are prime targets.



# CHALLENGES THE HEALTHCARE SECTOR FACE

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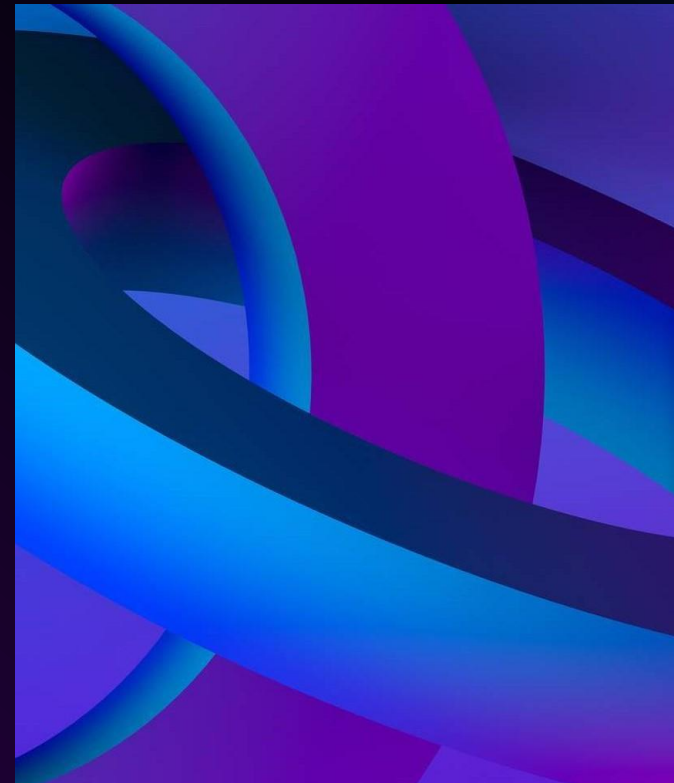
- Ransomware attacks “Rather than targeting individual patient data, attackers aim to capture large-scale historical data to extort entire organizations,” (filmmaker et al., n.d.)
- Data breaches and privacy violations : “88 million individuals were affected by large breaches, compromising vast amounts of electronic protected health information (ePHI) last year according to the U.S. Department of Health & Human Services”. (Cybersecurity Risks in Healthcare Are an Ongoing Crisis | IBM, 2024)



# HOW DOES THIS TIES INTO SOCIETAL FACTORS

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1. The need for patient safety and the protection of patient data deals with how society's well-being
2. Cyberattacks can prevent surgeries, access to patient records, and emergency treatments
3. Economic impact, psychological stress, impacts vulnerable populations



## SOCIETAL IMPACT PT 2

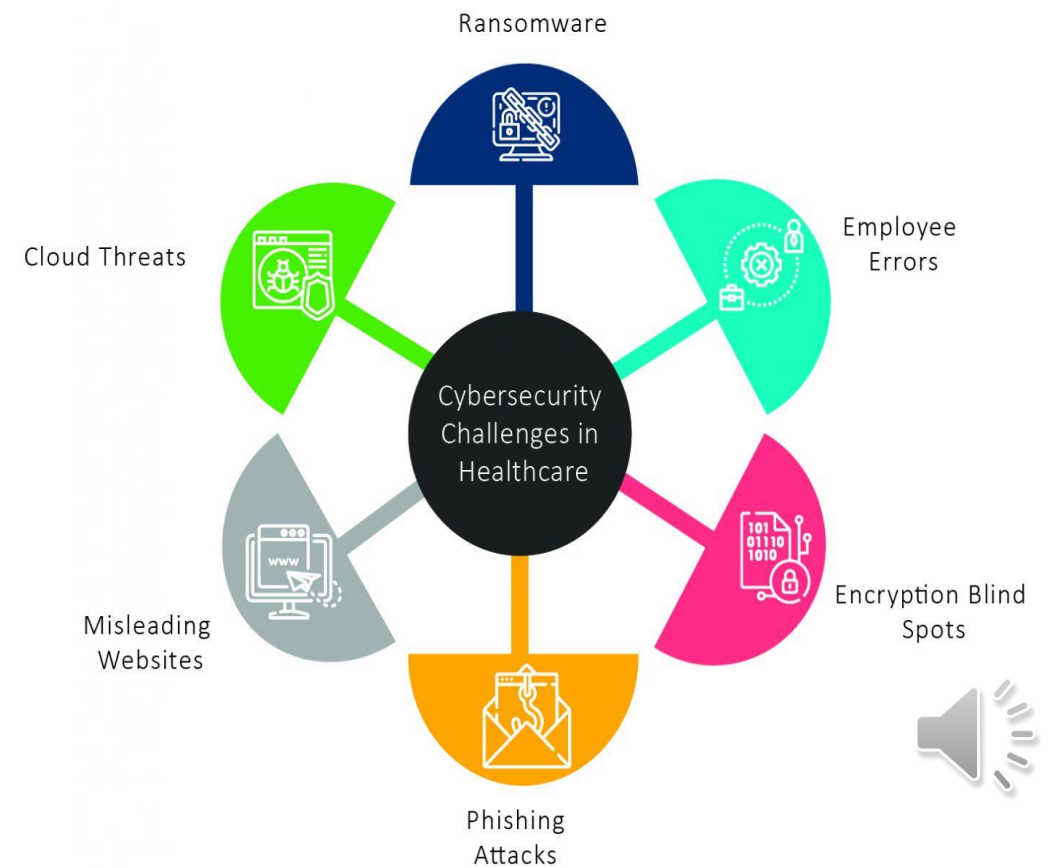
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- Economic conditions are affected by poor cybersecurity practices. “Stolen health records may sell up to 10 times or more than stolen credit card numbers on the dark web.” (The Importance of Cybersecurity in Protecting Patient Safety | Cybersecurity | Center | AHA, n.d.)
- Public trust and patient safety are negatively affected when personal health information is at risk. Trust is vital for adequate healthcare (The Importance of Cybersecurity in Protecting Patient Safety | Cybersecurity | Center | AHA, n.d).



# MORE TYPES OF MAJOR THREATS

<https://www.delveinsight.com/blog/cybersecurity-in-healthcare-industry>



# CONCLUSION

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The healthcare sector is particularly vulnerable, putting public health and safety at risk. With a heavy reliance on technology, including electronic health records and telemedicine, attackers are seizing the opportunity to steal sensitive patient information or launch ransomware attacks. These risks can disrupt patient care and may even lead to fatalities.

