**Security and Privacy of Health Data**

**Outline**

The security and privacy of health information play an essential role in improving the quality of healthcare services. Health data confidentiality and protection have gained more attention over the years due to increasing rates of data breaches in healthcare settings worldwide. The primary objective of this research is to establish the scope of security and privacy of healthcare information in various dimensions. The research dimensions include data protection policies, emerging trends on data protections and privacy, and overall security issues of healthcare database systems. The research encompasses a comprehensive analysis of security and privacy of patient's health information for healthcare organizations. It also provides an overview of the most common legislations that govern patients' information security and privacy. Laws like HIPAA's privacy rules, enacted in the United States, require healthcare institutions not to share patients' medical data without their consent. These laws were enacted to address security and data privacy issues surrounding the healthcare sector. They grant patients ownership rights of their medical information. Therefore, after collecting patients' information, healthcare facilities have no right to use or share the information with third parties or in their scientific research without the patients' consent. The research discusses the privacy and security solutions in the healthcare database system to help organizations protect and improve health information privacy. Lastly, it recommends researchers to carry more research on the topics of interest regarding healthcare information protection and confidentiality.