Transforming Health Systems through Digital Infrastructure: Insights from CSA Z8005 (*Title*)

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ABSTRACT

Summary: In this presentation, attendees will be provided with a detailed overview of the framework for planning, designing, and implementing digital infrastructure that can support current and future health care digital infrastructure and technologies.

Key Learning Points:

- **Framework for Digital Infrastructure:** Attendees will learn about the comprehensive framework provided by CSA Z8005, which includes guidance for planning and implementing digital infrastructure and digital health technologies. They will learn how the framework provides health care facilities direction on scalability, security, and future-proofing, to meet both current and future health care demands.
- **Integration and Interoperability Best Practices:** Attendees will be introduced to principles and requirements for achieving integration and interoperability of digital health systems within healthcare facilities. This includes the responsibilities of different interested parties, the importance of a master systems integrator, and the use of an integration platform. The session will highlight how the standard, in light of the Connected Care for Canadians Act (Bill C-72), can be an important tool for hospital administrators and policymakers, helping them drive the transformation needed to meet the demands of modern health care delivery.
- **Health System Transformation Tools:** The presentation will cover tools for transforming health care systems through digital infrastructure. These include costing templates that help facilities budget for capital, implementation, and maintenance expenses. Operational readiness checklists are also provided to ensure that telecommunication spaces are suitable for the installation of active equipment. Furthermore, the standard includes templates for selecting wireless staff communication devices, which guide HCFs in choosing devices that meet specific requirements such as ruggedness, waterproofing, and barcode reading capabilities. CSA Z8005 also offers guidance on developing business cases for digital health care technologies, maintaining equipment lists, and creating security roadmaps. These tools are designed to help HCFs plan, implement, and maintain their digital infrastructure effectively, ensuring that all technological investments are aligned with the facility's overall digital health vision and strategy.

By the end of the presentation, attendees will have a clearer understanding of how to leverage the CSA Z8005 standard to transform their health care systems through effective digital infrastructure and technology integration. They will also be equipped with strategies on using

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Conflict of Interest: The authors declare that they have no conflict of interest.