



**LEADERSHIP STRATEGIES APPLIED TO FACILITATE THE IMPLEMENTATION OF AI WITHIN A PUBLIC HOSPITAL**

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**Abstract:**

AI (Artificial Intelligence) is calling for the future of public healthcare system to be reimagined. The purpose of this study is to explore, develop, describe, contrast, and evaluate the various leadership strategies as a conceptual framework, applied by public health OM's to embrace AI benefits, with the aim to improve the healthcare system in public hospitals.

**Introduction:**

In South Africa, AI is already introduced to improve the public healthcare system. AI tools used within public hospitals include diagnostic tests for various conditions, monitoring tools of vital signs, intravenous fluids and medication administration. Operational managers (OMs) as leaders in public hospitals have to embrace the benefits of AI. However, the OMs still prefer to use manual systems than AI systems, and they perceive AI as the threat that will take their jobs.

**Results:**

Leadership strategies applied to facilitate the implementation of AI within a public hospital will be developed with the aim to improve the healthcare system in public hospitals.

**Methodology:**

A qualitative, exploratory, descriptive, and con-textual research design will be used in this study. Data will be collected using in-depth phenomenological individual and focus groups interviews. To analyze data, the researcher will use Giorgi's and Collaizi's phenomenological data analysis. Study Phases: Exploration of the concept of AI and its application and practices in healthcare systems. Exploration of theories, models and frameworks related to leadership strategies that facilitate change and the adoption of technology. Exploration and description of lived experiences of public health OMs on how they apply their leadership strategies to embrace AI benefits, using phenomenology inquiry method. Contrasting and evaluation of leadership strategies applied by public health OMs to embrace AI benefits. Development of a comprehensive conceptual framework, as a frame of reference to develop comprehensive leadership strategies to be applied by public health OMs to embrace AI benefits.

**Conclusions:**

AI is a game changer for the public healthcare sector. Effective leadership strategies to facilitate the implementation of AI will move the sector to the next dimension of excellence.





## Biography

Sanele Enock Nene holds a Masters Degree in Professional Nursing Science: Nursing Management, from University of Johannesburg (UJ). Currently doing a PhD in Leadership with Johannesburg Business School (UJ), studying Artificial Intelligence in public hospitals. He has vast of expertise in healthcare management and leadership including mining health. He is a Lecturer and a publishing Researcher in UJ, Department of Nursing. He has published two articles and currently supervising four Masters students.

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