Robotics in UK Healthcare Establishments: A Socio-Economic Intervention Towards Organisational Development

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Abstract

This research explores the integration of robotics in UK healthcare establishments, particularly within the NHS, aiming to address workforce challenges and enhance organisational performance through a change management strategy to ensure successful acceptance. The study employs a socio-economic approach to management (SEAM) to examine the feasibility and impact of robotics adoption. Key barriers include costs of the technology, user acceptance, and organizational change resistance. The methodology involves a five-phase intervention using action and participatory research, combining semi-structured interviews, case studies, and non-participant observations. The research aims to identify current challenges, explore staff perceptions, and evaluate the outcomes of robotic integration, providing practical guidelines for effective change management. The study's ultimate goal is to develop a comprehensive framework for the successful adoption of robotics, ensuring improved performance, reduced hidden costs, and enhanced satisfaction among healthcare beneficiaries. This pilot project aims to establish a long-term collaboration between academic institutions and healthcare organizations, contributing to the sustainable growth and technological advancement of the UK healthcare sector.

Keywords: adoption, change management, digital transformation, healthcare innovation, workforce efficiency