

## Advancing Dialysis Care Access And Health Information Management: A Blueprint For Nairobi Hospital

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**Abstract :** Nairobi Hospital plays a pivotal role in healthcare provision in East and Central Africa, yet it faces challenges in providing accessible dialysis care and managing health information efficiently. This paper explores strategic interventions to enhance dialysis care, access and streamline health information management, fostering an integrated and patient-centered healthcare system. Challenges at Nairobi Hospital: The Nairobi Hospital currently grapples with insufficient dialysis machines, resulting in extended turn around time in between dialysis sessions for patients. This issue stems from both staffing bottle necks and infrastructural limitations given our growing demand for renal care services. Paper-based records and fragmented information systems hinder the hospital's ability to manage health data effectively. A lack of hospital systems integration with other facilities jeopardizes patient care access by posing challenges. These inefficiencies hinder collaborative efforts within the healthcare network. An investment in the expanding Nairobi Hospital dialysis facilities to communities is crucial with the high number of new cases of patients with chronic kidney disease. Setting up satellite clinics that are closer to people who live in areas far from the main hospital will ensure better access. This includes acquiring physical space within the greater Nairobi region, and the incorporation of mobile dialysis units to reach underserved areas. By decentralizing services, Nairobi Hospital can extend its reach and cater to a larger patient population. Community Outreach and Education: Implementing educational programs on kidney health within local communities is vital for early detection and prevention. Collaborating with local leaders and organizations can establish a proactive approach to renal health hence reducing the demand for acute dialysis interventions. it can amplify this effort by expanding Nairobi Hospital's corporate social responsibility outreach program. Increasing the hospital's footprint would also require an equal ramp up of staff recruitment. Support for continuous training programs will ensure that healthcare providers stay abreast of evolving practices, contributing to improved patient outcomes and service quality. Streamlining Health Information Management: Fully embracing a shift to 100% Electronic Health Records (EHRs) is a transformative step toward efficient health information management. Customizing these systems to Nairobi Hospital's specific needs allows for seamless data recording, retrieval, and sharing among healthcare professionals. Doing so will help the hospital guarantee a continuum of care for patients transferring from other facilities. A 100% transition to digital record will also pose its own security threats. Ensuring robust security measures protects patient data and builds trust. Adherence to healthcare data privacy regulations is non-negotiable, and a comprehensive strategy for encryption, access controls, and regular audits should be implemented. Integrating systems to enable interoperability with other healthcare providers facilitates a cohesive healthcare network. Shared information promotes a holistic understanding of patients' medical history, minimizing redundancies and enhancing overall care quality. Implementation Strategies: To manage the transition to community-based care and EHRs effectively, a phased implementation approach is recommended. Prioritizing dialysis care improvements, at a local level, in the initial stages allows the hospital to address immediate patient needs, followed by the integration of health information management changes. Engaging hospital staff, patients, and local communities is paramount. Collaboration with government agencies, non-governmental organizations (NGOs), and international partners enhances support and resources for successful implementation. Conclusion: By strategically enhancing dialysis care access and streamlining health information management, Nairobi Hospital can strengthen its position as a leading healthcare institution in both East and Central Africa. This comprehensive approach aligns with the hospital's commitment to providing high-quality, accessible, and patient-centered care in the evolving landscape of healthcare delivery.

**Keywords :** Africa, urology, dialysis, healthcare

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