



ROLES AND RESPONSIBILITIES OF LABORATORY SPECIALISTS, NURSES, PHARMACIST, AND RADIOLOGIST: IMPACT ON HEALTH CARE SYSTEM

Mohammad Adal A Alriya^{1*}, Abdalkareem Ghedier Alanazi², Saad Abdullah Hussain Mushilih³, Shrooq Mohammad Alqahtani⁴, Misaa Awad Alenezi⁵, Arwa Ahmad A. Haffah⁶

Abstract:

Background: Holistic care is an essential approach in healthcare that considers patients as whole individuals with physical, emotional, social, and spiritual needs. It involves treating the entire person rather than just the symptoms of a disease, aiming to promote overall wellness and prevent future health issues. Various healthcare professionals play crucial roles in providing holistic care, including laboratory specialists, radiologists, nurses, and pharmacists. **Objective:** This research article aims to assess the role of laboratory specialists, nurses, radiologists, and pharmacists in patient holistic care, identify barriers to effective collaboration, develop strategies to improve communication among healthcare professionals, and evaluate the impact of enhanced collaboration on patient outcomes. **Conclusion:** Embracing holistic care approaches in healthcare settings is vital for improving patient outcomes and overall well-being. By promoting collaboration, communication, and personalized care, holistic approaches have shown to enhance patient satisfaction, reduce treatment costs, and improve quality of life. Healthcare providers need to consider patients as whole individuals with diverse needs and empower them to actively participate in their healthcare journey for better health outcomes and overall wellness.

Keywords: holistic care, pharmacist, nurses, laboratory specialist.

^{1*}Laboratory Technician, Primary Health Care Centers, Arar, Saudi Arabia

²Nursing Technician, Primary Health Care Centers, Arar, Saudi Arabia

³Specialist of Laboratory, Aseer Central Hospital, Abha, Saudi Arabia

⁴Radiology Specialist, Khamis Mushayt Maternity and Children Hospital, Khamis Muchayt, Saudi Arabia

⁵Pharmacist, Compliance Management, Ministry of Health, Arar, Saudi Arabia

⁶Laboratory Specialist, Khamis Mushayt Maternity and Children Hospital, Khamis Muchayt, Saudi Arabia

***Corresponding Author:** Mohammad Adal A Alriya

*Laboratory Technician, Primary Health Care Centers, Arar, Saudi Arabia

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Introduction:

Holistic care, as advocated by healthcare providers, involves a comprehensive approach to patient well-being that encompasses the interconnected aspects of the body, mind, and spirit within the patient's environment. This inclusive perspective acknowledges the patient's integral role in their healing journey, fostering active participation in their treatment and promoting self-care practices. By embracing holistic care principles, healthcare professionals aim to facilitate therapeutic consultations, instill hope, uphold dignity, nurture self-discipline, foster social growth, empower autonomy, and enhance vigor and vitality [1].

Furthermore, holistic care deepens healthcare providers' understanding of patients and their unique needs. Educating patients on self-care strategies and supporting them in achieving independence in their daily activities are integral components of holistic care. Additionally, holistic care encompasses palliative interventions that enhance patients' quality of life, addressing both their emotional and physical well-being. Through holistic approaches, patients can cultivate self-awareness and self-confidence, contributing to their overall wellness [2].

In the realm of holistic medicine, the focus extends beyond treating diseases to encompass health promotion and disease prevention, with an emphasis on patient education. Many holistic practitioners view well-being as a continuum that transcends mere absence of disease, culminating in a state of complete physical, mental, and social wellness—referred to as "super health." This holistic perspective encourages healthcare providers to support individuals in optimizing their biopsychosocial potential, promoting vitality, joy, and creativity as facets of self-actualization [3].

In holistic nursing, the entirety of patients' experiences and their impact on the healing process are taken into consideration. Patient perspectives, emotions, cultural backgrounds, beliefs, and attitudes are recognized as influential factors in their recovery, happiness, and overall satisfaction [4]. Central to holistic care is the preservation of human dignity, fostering relationships between healthcare providers and patients characterized by respect, transparency, equality, and mutual participation in decision-making processes [5].

However, there is a concerning trend indicating that many nurses have been predominantly trained in a biomedical allopathic framework, lacking a

comprehensive grasp of holistic care principles. Consequently, there is a risk of neglecting holistic care models, potentially overlooking patients' diverse needs beyond the purely physical realm. This oversight may result in inadequate attention to patients' mental, spiritual, and social requirements, reducing them to mere biological entities in need of medical intervention.

Laboratory specialists play a pivotal role in this collaborative healthcare approach by furnishing precise and timely diagnostic insights that inform treatment strategies. Their expertise in analyzing various biological samples, such as blood, urine, and tissue specimens, aids in identifying underlying health conditions and monitoring the effectiveness of therapeutic interventions [6].

Objectives:

The main objectives of this review are:

1. To assess the role of laboratory specialists, nurses, radiologists, and pharmacist in patient holistic care.
2. To identify the barriers and challenges that hinder effective collaboration and holistic approaches in improving patient outcomes.
3. To develop and implement strategies to improve communication and collaboration between the different healthcare professionals involved in patient care.
4. To evaluate the impact of enhanced collaboration and holistic approaches on patient outcomes, including reduced hospital stays, improved recovery rates, and overall satisfaction with care.

The role and responsibilities of radiologist in health care system:

Radiologists are indispensable figures within the contemporary healthcare landscape, playing a pivotal role in leveraging cutting-edge imaging technologies to diagnose and address a diverse array of medical issues. These specialized medical professionals are adept at interpreting a spectrum of imaging modalities, including X-rays, CT scans, MRIs, ultrasounds, and nuclear medicine scans, to furnish precise insights into the intricate internal structures of the human body [7]. Beyond mere image interpretation, radiologists are instrumental in advising fellow healthcare providers on selecting the most suitable imaging tests for specific conditions, ensuring procedural safety for patients, and effectively communicating with patients and their families regarding diagnoses and treatment alternatives.

Within the domain of diagnostic imaging, radiologists are tasked with pinpointing anomalies, illnesses, or injuries within the body based on images obtained through diverse imaging techniques. Their role demands a meticulous attention to detail and a profound comprehension of human anatomy and pathology to accurately decipher these images and furnish prompt and precise reports to referring physicians. Collaboration with other medical specialists is a common practice for radiologists, as they pool their expertise in imaging interpretation to facilitate the diagnostic and treatment planning processes [8]. Moreover, radiologists are at the forefront of technological advancements in medical imaging, continually staying abreast of the latest innovations in imaging technology and methodologies. They shoulder the responsibility of upholding imaging equipment quality and safety, while implementing protocols to reduce radiation exposure for patients and healthcare providers. Upholding stringent ethical and professional standards is paramount for radiologists, ensuring patient confidentiality and upholding the highest standards of integrity in their practice [9].

In addition to their diagnostic responsibilities, radiologists are pivotal players in the realm of interventional radiology, where they perform minimally invasive procedures under imaging guidance to address a spectrum of conditions. From biopsies and drainages to intricate interventions like tumor ablations and vascular stenting, interventional radiologists collaborate closely with other specialists to offer innovative treatment avenues that carry reduced risk, shorter recovery times, and enhanced outcomes for patients [10]. Overall, the multifaceted and essential role of radiologists in the healthcare continuum is undeniable. Their adeptness in medical imaging not only aids in precise diagnosis and treatment of a myriad of medical conditions but also contributes significantly to enhancing patient outcomes and overall healthcare quality [11]. Radiologists assume key positions within healthcare teams, collaborating with other healthcare professionals to deliver comprehensive and patient-centric care. Their unwavering commitment to excellence, dedication to ongoing education, and zeal for propelling the radiology field forward render them invaluable contributors to the provision of top-tier healthcare services [12].

The role of laboratory specialist in health care system and holistic care approaches:

Clinical laboratories have a crucial responsibility in delivering consistent and valuable information for patient care, ensuring that results remain comparable across different locations and time periods. This standardized approach in laboratory practice holds immense significance, not only from a clinical perspective but also in terms of its economic and ethical implications, as it greatly aids in enhancing the overall quality of healthcare services. By enabling the universal applicability of clinical study findings conducted at various sites and points in time, this ideal framework contributes significantly to the advancement of healthcare [13].

Within this framework, laboratory specialists play a pivotal role in the comprehensive care model by furnishing essential diagnostic insights that assist in the holistic evaluation and treatment of patients. These extensively trained professionals are tasked with performing a diverse array of laboratory tests on patient specimens, including blood, urine, and tissue samples, to facilitate accurate diagnosis and the formulation of effective treatment strategies by healthcare providers. Through the meticulous analysis and interpretation of test outcomes, laboratory specialists actively participate in the early detection of diseases, ongoing monitoring of chronic conditions, and assessment of treatment efficacy [14].

Moreover, they serve as guardians of patient safety by upholding the precision and dependability of test results through strict adherence to rigorous quality control protocols and proficiency testing. Additionally, collaboration with various healthcare team members, such as physicians, nurses, and pharmacists, is integral to their role, ensuring the delivery of comprehensive and well-coordinated care to patients [15]. Their specialized knowledge and unwavering attention to detail are indispensable in guaranteeing that patients receive superior care and achieve optimal health outcomes.

In summary, the indispensable contributions of laboratory specialists within the holistic care paradigm are undeniable, as they provide invaluable insights and assistance to the healthcare team in delivering personalized and evidence-based care to patients [16].

The role and responsibilities of nurses in holistic care approaches:

Holistic nursing care (HNC) plays a pivotal role in the realm of nursing, emphasizing the comprehensive well-being of patients. The core objectives of holistic nursing revolve around

enhancing health outcomes, alleviating suffering, and proactively preventing illnesses. Holistic nurses are dedicated to safeguarding, fostering, and optimizing health and wellness, while also offering invaluable support to individuals in their pursuit of tranquility, solace, and equilibrium during periods of ailment [17].

The demand for holistic nursing care is steadily escalating on a global scale, underpinned by the intrinsic link between quality of life and holistic care. It is imperative that any assessment of quality of life adopts a holistic approach, recognizing that various facets of an individual's life are interconnected and mutually influential [18].

The implementation of holistic care emerges as a potent strategy in averting diseases and fatalities, while concurrently elevating the caliber of healthcare dispensed to patients. This shift towards holistic healthcare is palpable, with a growing number of individuals worldwide veering towards holistic practices over conventional medicine. Notably, in the United States, one in every three individuals seeks holistic care [19]. The integration of holistic nursing care not only enhances patient satisfaction by refining the care quality but also mitigates treatment expenses, shortens hospital stays, and curtails the likelihood of developing new complications.

Despite the evident benefits, a substantial portion of nurses in various healthcare settings fall short of embracing holistic treatment methodologies. Surveys indicate that a significant percentage of patients in the United States—approximately 67%—do not receive holistic care, in stark contrast to just 5% in Germany. The absence of holistic care presents a crisis within the nursing profession, given its pivotal role in health promotion and restoration [20].

Moreover, empirical data underscores a prevalent lack of familiarity among nurses with holistic care, coupled with a tendency to overlook the holistic care model and neglect spiritual, mental, and social dimensions in patient care [21]. Various impediments, including constraints related to time, experience, motivation, organization, and resource availability, hinder the widespread adoption of holistic care practices. Furthermore, a significant number of nurses refrain from holistic care due to their training in the biomedical allopathic system, which prioritizes disease over holistic patient care and often lacks a comprehensive understanding of holistic nursing practices [22].

The contribution of pharmacist in holistic care approaches:

Pharmacists are widely recognized among healthcare professionals as the primary point of contact for patients within the healthcare system, being easily accessible and trusted, and maintaining regular interactions with patients through prescription dispensing schedules [23]. Situated conveniently within communities, pharmacists have the opportunity to participate in various health promotion initiatives and services. The significance of clinical pharmacists in healthcare environments has been increasingly acknowledged in recent years. These specialized pharmacists play a pivotal role in ensuring the safe and effective utilization of medications in hospitalized patients. One crucial area where clinical pharmacists can have a substantial impact is by educating nurses on drug-food interactions. These interactions occur when specific foods or drinks influence the way medications are absorbed, metabolized, or excreted, potentially resulting in adverse effects or diminished therapeutic benefits. In the realm of managing chronic pain in patients, pharmacists can contribute by providing pain education and advocating self-management techniques to reduce reliance on medications. Through their regular interactions with patients, pharmacists can identify barriers that hinder treatment outcomes and recommend referrals to other healthcare or wellness providers when necessary [24].

In the domain of community pharmacy and self-care, community pharmacists play a distinctive role in guiding patients on various aspects of self-care, encompassing all pillars of self-care. This includes educating patients on the importance of rationale and responsible use, which is the seventh pillar of self-care [25]. For instance, pharmacists oversee the appropriate utilization of over-the-counter (OTC) products to help patients maximize benefits and avoid potential risks. Furthermore, pharmacists are instrumental in providing assistance, advice, and information to address self-care needs, aligning with the World Health Organization's definition of self-care. Community pharmacists are acknowledged as one of the most accessible healthcare professionals, further emphasizing their crucial role in promoting self-care practices [26].

Impact of holistic care approaches on patient health:

The holistic care approach is a comprehensive healthcare method that takes into account the physical, emotional, social, and spiritual well-being

of an individual, rather than just focusing on treating the symptoms of a disease or condition. By addressing all aspects of a patient's health, holistic care aims to promote overall wellness and prevent future health issues [27]. Research has shown that patients who receive holistic care experience improved health outcomes, such as reduced pain, better mental health, and increased quality of life. Additionally, this approach empowers patients to actively participate in their healthcare, leading to better adherence to treatment plans and healthier lifestyle choices. Overall, the impact of holistic care on patient health is significant, as it addresses the root causes of health issues and promotes healing on multiple levels. Healthcare providers who adopt a holistic care approach are able to offer more personalized and effective care that truly benefits their patients [28].

Conclusion:

In conclusion, this research article highlights the importance of holistic care in healthcare settings, emphasizing the need to consider patients as whole individuals with physical, emotional, social, and spiritual needs. The role of healthcare professionals such as laboratory specialists, radiologists, nurses, and pharmacists in providing holistic care is crucial for improving patient outcomes and overall well-being. By promoting collaboration, communication, and personalized care, holistic approaches have shown to enhance patient satisfaction, reduce treatment costs, and improve quality of life. Embracing holistic care not only addresses the root causes of health issues but also empowers patients to actively participate in their healthcare journey, leading to better health outcomes and overall wellness.

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