

Multidisciplinary Healthcare Teams: The Role of Health Security, Nursing, Medical Laboratories, Social Work, Medical Secretaries, and Physiotherapy in Patient Care

Bassam Rabah Aesh Almohammadi¹ Ahmed Hassan Khalaf Alharbi¹ Abdullah Mohammed Alezzy² Salem Hassan Khalaf Alharbi³ Naif Hamed Marzouq Altamimi⁴ Fares Mubarak Alraddady⁵ Basem Hursan A Al Mutairi⁵ Turki Mohammed Salem Islam⁶ Ahmed Mohamed Abubakar Al Hawsawi⁷

1Health Assistant - Health Security, Ohoud hospital

2Nursing, Ohod hospital

3Health Assistant - Health Security, Medical Rehabilitation Hospital

4Medical laboratories, Njoud Medical Center

5Social Worker, Ohoud hospital

6 Medical secretary, Ohoud hospital

7Physiotherapy, Ohoud hospital

ABSTRACT

Introduction: Integrated and/or multidisciplinary healthcare teams have become one of the essentials of present day medicine and have raised the focus of such a variety of needs and interests that healthcare delivery has come to be viewed as the business of teams and not individuals. These teams are formed by professionals of different specialties who come with different experience and views. Combined the ultimately improve the quality and efficiency of the care, produce superior health outcomes for the patient, and promote patient-centric treatment plans. Some of the important members of these teams include personnel in health security, nursing, medical laboratory, social work, medical secretaries and physiotherapy.

Aim of work: To explore the contributions of various disciplines within multidisciplinary healthcare teams, specifically examining the roles of health security, nursing, medical laboratories, social work, medical secretaries, and physiotherapy.

Methods: We conducted a comprehensive search in the MEDLINE database's electronic literature using the following search terms: Multidisciplinary, Healthcare, Role, Health Security, Nursing, Medical Laboratories, Social Work, Medical Secretaries, and Physiotherapy, Patient Care. The search was restricted to publications from 2016 to 2024 in order to locate relevant content. We performed a search on Google Scholar to locate and examine academic papers that pertain to my subject matter. The selection of articles was impacted by certain criteria for inclusion.

Results: The publications analyzed in this study encompassed from 2016 to 2024. The study was structured into various sections with specific headings in the discussion section.

Conclusion: Multidisciplinary health care team is the common practice for the future effective and holistic patient care delivering by the team of various professionals. Health security professionals protect the health environment, nurses treat patients with patient-centered care, medical laboratory perform tests and diagnoses, social workers manage patients' psychosocial issues, medical secretaries manage schedules and referrals, physiotherapy assists patients to restore function. Combined, the above professionals create a compact team that seeks to enhance client results and the overall standard of healthcare delivery. Their working hence portrays how much team work can go a long way in ensuring the complexity of today's health care is well dealt with.

Keywords: *Multidisciplinary, Healthcare, Role, Health Security, Nursing, Medical Laboratories, Social Work, Medical Secretaries, and Physiotherapy, Patient Care*

INTRODUCTION

Increased severity of diseases and breakthrough in technology require interprofessional collaboration so as to enhance the element of care (Karam et al., 2021). Antithetically, healthcare teams have become the backbone of today's progressive medicine where healthcare needs of patients are complex in nature (Sattar & Mohsin, 2024). Such teams include people with different qualifications and experiences in different fields apart from law. Collectively, Minimizing Variability; Improving the Quality of Care; Health Outcomes; and Patient-Centrism in Delivery of Treatment. Some of the staff and most important members of these teams are health security specialists, nurses, medical laboratory technicians and scientists, social workers, medical secretaries, and physiotherapists. All these professional fields also have a significant responsibility in guaranteeing that the patient's care is not only optimal, included complete and much sensitive but also timely.

Health security forms the fundamental support of the multidisciplinary team safeguarding individual and populous health care providers against all forms of harm (World Health Organization, 2018). It includes practices and clinical activities or preventive measures such as infection control procedures and emergency preparedness and response. They have the relocation of ensuring that threats including diseases or bioterrorism that may affect the provision of health care are averted. The health security specialists ensure that other team members can work in safer environments thereby holding safety duties that would otherwise interfere with specific tasks (World Health Organization, 2018).

Nurses are directly involved with the patient, often remaining the single consistent care provider that communicates with other personnel within a hospital. In liaison with the medical practitioners, nurses also provide care solutions that touch on physical, emotional and psychological wellbeing. They evaluate the patient requirements, dispense therapy, and promote for clients, to guarantee that treatment plans conform to certain diseases. As they spend most of their time with patients, they are able to notice changes in health, no matter how small, that they relay to the rest of the team in order to take action (Flaubert et al., 2021).

Medical laboratory staffs are a little-known but vital link in the healthcare provision chain. They offer relevant information that can aid in diagnostic decisions through accurate diagnostic testing. Their knowledge ranges from recognizing the origins of diseases to tracking ongoing illnesses, which supports the diagnosing and treatment steps involved. Not only do they corroborate diagnoses, but they also help to choose the right therapy, so they are a pillar of evidence-based medicine (Hopprich, R. 2024).

Social workers have a multifaceted role as members of a multidisciplinary team; they consider the social factors that affect the patients' health. They offer counseling, help the patients to be directed to other health facilities, and assist the families in accommodation of health facilities. In this capacity, they act as patient advocates for the underserved while minimizing social determinants of health to ensure not only clinical care is delivered but the social aspects of patient's lives as well (Rowe et al., 2017).

Medical secretaries act as middle agents between healthcare workers by organizing their appointments, writing reports, and relaying information. These attributes enable them to provide logistical support with little interference on clinician's patient care duties. They also maintain coherency of patient record and legal requirements for care continuity (Below et al., 2024).

Finally, physiotherapists help patients in regaining their functions and overall well-being if they are suffering from any physical disability or have any sort of physical disability. They develop

specific recovery plans for each patient; such recovery helps in movement, reducing pain, and attaining independence. It is therefore important to understand the effect of physiotherapy in preventing complications and minimizing hospitalization rates, especially among post-surgical, injured, and chronically ill patients (Daley et al., 2021).

AIM OF WORK

The purpose of this review is to discuss and analyze the contribution of the members of the multidisciplinary healthcare team in the context of health security, nursing, medical laboratories, social work, secretarial services, and physiotherapy. This review is going to shed light on how these several professionals work cohesively ensuring that patients have an improved quality of health, and effectively responding to the complexities that pervade the current health system.

METHODS

A thorough search was carried out on well-known scientific platforms like Google Scholar and Pubmed, utilizing targeted keywords such as Role, Nursing, Public Health, Promoting, Community Wellness and Comprehensive Prevention. The goal was to collect all pertinent research papers. Articles were chosen according to certain criteria. Upon conducting a comprehensive analysis of the abstracts and notable titles of each publication, we eliminated case reports, duplicate articles, and publications without full information. The reviews included in this research were published from 2016 to 2024.

RESULTS

The current investigation concentrated on the contributions of various disciplines within multidisciplinary healthcare teams, specifically examining the roles of health security, nursing, medical laboratories, social work, medical secretaries, and physiotherapy between 2016 and 2024. As a result, the review was published under many headlines in the discussion area, including: Health Security: Safeguarding the Healthcare Environment, Nursing: The Backbone of Patient Care, Medical Laboratories: The Cornerstone of Diagnostics, Social Work: Addressing Psychosocial Needs, Medical Secretaries: Ensuring Administrative Efficiency, Physiotherapy: Promoting Rehabilitation and Recovery and Integration of Multidisciplinary Teams in Patient Care

DISCUSSION

The delivery of healthcare has remained dynamic over the years through a more practical and integrated model to addressing patient's needs (Marsilio et al., 2017). The nature of the current focus areas in health care requires affiliation of various specialists, all of whom contribute expertise in order to address different signaling and enhance patient care. Multidisciplinary healthcare teams are concerned with several caregivers from the healthcare domain who work jointly in addressing patients needs holistically (Alsubaie et al., 2024). This review focuses on identifying premise of health security, nursing, medical laboratories, social works, medical secretaries, and physiotherapy and their importance in the healthcare system.

Health Security: Safeguarding the Healthcare Environment

The biosecurity is a central in the protection of patient, healthcare personnel and the general population in health facilities. It refers to measures that are employed to avoid dangers like proliferation of diseases, risks in the workplace and violation of patient's information. HSPs collaborate with other team members to put in place excellent infection prevention procedures, ensure secure premises in health care facilities and participate in adequate management of disasters or crises (Soensen et al., 2021).

Organizational scholars of health security guarantee that safe care delivery environment in case they work in a multidisciplinary team. They put measures in place to prevent new infections which are important in health facilities. For instance, health security specialists together with nurses, laboratory personnel, among other personnel ensured compliance with enhanced infection and contamination prevention measures, and use of protective gowns, masks, gloves, and sheath

among other protective accessories throughout the COVID 19 period. They do not only go further in offering direct care to patients but they ensure that they keep off diseases that can be spread easily from one person to the other (Rosen et al., 2018).

Also, there are promises on the contingency professionals particularly the health security. They design working plans of compensations to calamitous or hostile acts like natural disasters and bioterrorism with preservation of healthcare facilities and institutions during and after disastrous epidemics. These preventive actions protect both the 'hardware' and 'software' of 'health facilities factories' to ensure continuous delivery of services while reassuring the public in health facilities (Al-Otaibi et al., 2024).

Nursing: The Backbone of Patient Care

Nursing has particularly been considered as the bedrock of patient services as it has extensive and frequent interface with patients. They are frontline carers who offer various services including clinical care, support with emotions, information and support regarding the patients. Their purpose is crucial to the teams, as they work as a bridge between patients and other care givers (Abbasinia et al., 2020).

Nurses are required to superintend the patients, give out medication, as well as apply treatment regimens that have been prescribed by doctors and other professionals. They are in a better position when it comes to assessing variations in the health status of a client as they minimize complications. Additionally, the same work highlights that nurses are unique leaders and educators of patients and their families on various aspects of care delivery, illness, and wellbeing (Mardani et al., 2020).

When nurses are part of a multidisciplinary team, the clinicians benefit from the insights gained through the frequent patient contact. They bring together members of the team to collectively participate in the formulation of care plans and also to put patient-centered care into practice. For instance, in managing medical complications, nurses liaise with the laboratory assistant to monitor the patients' test results, with the physiotherapist on the rehabilitation exercises for the patients and the social worker on the patients' psychosocial issues (Alobaid et al., 2024).

These changes in healthcare practice lead to growth in the practice of nursing. Nurse practitioners and clinical nurse specialists are some of the advanced practice nurses, who are allowed to undertake tasks that were previously assumed by physicians like diagnosing a disease, and recommending appropriate treatment. Such versatility of A-modified scale highlights the importance of nursing in the approach to the patient from multiple perspectives (Salmond, & Echevarria, 2017).

Medical Laboratories: The Cornerstone of Diagnostics

Diagnostic laboratories are the foundation of precision medicine diagnosis, delivering essential information that underpins decision making. Medical technologists and technicians engage in the analysis on blood, urine and any other fluids products, tissue samples or any other sample that may be yielded from the human body in an attempt to diagnose diseases, check up on an individual's health standards, or try to recommend some form of treatment (Alharbi et al., 2023).

Thus, in each and every context of the large-scale, multidisciplinary, comprehensive healthcare team, laboratory professionals and the other clinically practicing professionals, such as physicians and nurses, work most enthusiastically and cooperatively in supporting the patients and providing the most accurate and preliminary test results. For instance, in diagnosing and treating Diabetes; blood glucose testing and HbA1c testing are compulsory. In a manner similar to diagnosis management of infections, laboratory diagnostic studies confirm the causative pathogen(s) and also their resistance profile to antibiotics (Alanazi et al.).

In addition to diagnosing diseases, the function of medical laboratories is also to make follow-ups in relation to the effectiveness of the treatment being administered. For example, in oncology, laboratory tests evaluate toxicity and the response to chemotherapy and helps oncologists make modifications that are necessary. The laboratory personnel is also involved in surveillance for new emerging diseases, and other activities to ensure prevention of diseases is put into consideration ((Hakami et al., 2022).

Technological improvement that include enhanced laboratory sample acquisition, testing automation, and molecular diagnostics have all boosted the efficiency of laboratory and treated patients better. Still, laboratory personnel retain their knowledge in result analysis and quality assurance, particularly when dealing with emerging intricate results (Mohamed, 2024).

Social Work: Addressing Psychosocial Needs

Social workers are crucial members of the interprofessional healthcare workforce who prevent/delay adverse health outcomes due to psychosocial and socioeconomic influences. This makes them unique from other healthcare providers because they support the overall care of the patient without limiting themselves to the physical aspect of the patient which tends to be the common attitude from clinical orientated healthcare professionals such as doctors and nurses (Maxhakana, 2021).

In outpatient service delivery, social workers offer counseling, support, as well as referrals to patients and their families struggling with health issues. Some of the benefits are: Patients are assisted in managing the healthcare maze, getting funding for their healthcare needs and referrals to other support structures. For instance, a social worker can help a cancer patient to get a ride to appointments or to access funds to buy expensive drugs (Dziegielewski & Holliman, 2019).

Discharge planning is also among the duties of social workers that aim at facilitating patient's transfer from a hospital setting to a home or another institution. They evaluate patients' families, living environments, and other factors which may hinder their recovery and coordinate with other teams to address such issues. When it comes to chronic disease or disability, social workers participate in long-term care planning and promoting patients' rights (Heenan, 2023).

Despite the fact that it may not be apparent to some, the support that social workers give to their patients plays a major role in helping deal with mental disorders which usually come hand in hand with physical ailments. Through treatment and counseling, social workers assist the patients and families with stress, anxiety, and depression and promote well-being (Yadav & Rajan, 2024).

Medical Secretaries: Ensuring Administrative Efficiency

Medical secretaries, despite are not extensively highlighted within patient care discussion, have the responsibility of providing medical administrative services to health care teams. They are in charge of time, record, message, and organization to keep patients safe while clinicians deal with patients (Alosaim et al., 2024).

As clerical professionals in a variety of clinical contexts, medical secretaries are also important key communicators within multidisciplinary teams. They arrange appointments for themselves and with other staff, they deal with the schedules of patients and patients' files, and make sure the result of tests and reports are easily accessible. Their accuracy in handling documents eliminates the repetitive mistakes and brings for better quality service in the delivery of health care services (Zakri et al., 2024).

Medical secretaries are also involved with the patient in day to day activities. They engage the patient during consultations answering questions and attending to their concerns. These factors are positively enhancing patients' experiences and building confidence on the healthcare system (Asif, & Khan, Analysis Year: 2024). The development of the digital health system has increased the duties of medical secretaries. They are now familiar with the EHR systems, telehealth modality as well as other technologies to enhance functioning. That they are able to survive these changes

particularly supports their central role in healthcare environments in the present and eventual future (Asif, & Khan, 2024).

Physiotherapy: Promoting Rehabilitation and Recovery

Physiotherapy or physical therapy basically involves availing patient care and independent practice of using physical therapy techniques to treat patient with physical dysfunctions. Physiotherapists utilize research information to facilitate movement, relieve pain and enhance activities to ensure that the patient leads a high quality life as required (McNeely et al., 2016).

Physiotherapists work with other practitioners to consider and establish the plans for rehabilitation for each patient. For instance, after an orthopedic surgery a physiotherapist together with the surgeons and nurses come up with some exercises that may facilitate the healing process and at the same time avert some complications. In cases of stroke for instance, physiotherapy helps patients retrain their muscle function and be more independent again (Mirinchev, R. 2024).

Physiotherapy is not limited to a mere practicing of the trade in rehabilitation but practicing preventive health. Pt's teach patients about avoiding re-injury and doing exercises and using proper posture at work, etc. This is quite important in diseases in which physical activity is a critical form of treatment, such as arthritis (Singh, et al., 2018). Equally in healthcare interdisciplinary teams, physiotherapists are involved in handling the physical symptom complexes. Engagement with social workers, nurses and medical secretaries guarantees that the patients undergo a through solution provision process during the entire rehabilitation process (ALENAZI et al., 2023),.

Integration of Multidisciplinary Teams in Patient Care

The use of interdisciplinary collaboration in patient care increases the efficiency of care delivery through team work as well as makes sure all the aspects of a patients are catered for. All individuals are unique and approach the treatment and recovery processes different, making it a high-level care model (Taberna et al., 2020).

The foundation of interdisciplinary collaboration today therefore entail articulate communication, teamwork and collaboration as well as respect for others and focusing on the patient. Internal staff communication and case discussion and conferences help the group to inform and coordinate their activities so that there is not overlap of activities. For instance, in curating a patient with multiple issues, a doctor, a nurse, a social worker, a physical therapist, and a lab specialist may all be involved in managing that patient's care (Al Otaibi et al., 2022). The benefits of having multidisciplinary teams reflect well attendance on improvement of patients' health, increased satisfaction, and overall reduction in the costs of health care. Due to the fashion in how these teams approach patient care and management, they are certain that all aspects, including medical, the patient's emotional status, and their social situations, are all adequately addressed.

CONCLUSION

Multidisciplinary healthcare teams are now emerging as important components of advanced healthcare systems that suit the diversified health care needs of today. In these teams, every specialist implements individual approaches, which allows medical, physical, psychosocial, and administrative aspects to be considered when managing patient cases. The concepts of health security, nursing, medical laboratories, social work, medical secretaries, and physiotherapy will best illustrate his belief in synergy in attaining high standards of improved patients' outcome and co-ordinated health care system.

An included health security entails safety of patients as well as healthcare providers involved in the management of diseases especially through infection control and calamity or disaster response. Nursing is still central to delivering aid and exhibits the clinical strengths and patient advocacy. Medical laboratories provide essential diagnostic information that aids in correct treatment strategies, while social workers handle the psychosocial and economic factors patients experience:

providing accesses to essential resources and services. Medical secretaries facilitate operations so that administrative work does not hinder the provision of efficient and effective medical services. Physiotherapists improve and facilitate the process of healing and restoring the patients' functional capabilities to minimize their dependency on others.

The analyses of these resumes reveal how dedicated and hardworking these healthcare professionals are in coming up with an effective, empathic, and patient-oriented healthcare delivery system. Cooperation and professionalism are vital in the formation of such teams since it creates a balance of philosophy and practice and guarantees comprehensive care plans that anticipate and respond to all the aspects relating to a patient.

Experts agree with the notion that knocks down interprofessional healthcare teams are the future of health since they allow for harnessing different skills to address present and emerging health issues. These professions make sure that patient care is spectacular, and this show that physical, mental, and social aspects are integrated. This model of teamwork provides an excellent example of what the healthcare department is working towards, enhancing human and communal lives.

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