

A Study of the Challenges and Potential Policy of Nursing in Saudi

Ali Mohammed Asiri^{1*}, Fahad Ali Hamdi², Hani Rashed Alzahrani³, Ali Mohammed Akkam⁴, Abdulrahman Majed Alojaymi⁵

¹ Nursing Specialist, PSMMC

^{2,3,4,5} Nursing technician, PSMMC

Abstract - This study critically examines the multifaceted challenges encountered by nursing specialists in Saudi Arabia and explores capacity coverage interventions to deal with these troubles. The Kingdom of Saudi Arabia faces a myriad of hurdles inside its nursing quarter, which include a scarcity of qualified nursing workforce, inadequate education and academic opportunities, challenging work environments, socio-cultural complexities, and technological constraints. This research illuminates the complex panorama of those challenges, highlighting their effect on healthcare transport and nursing practice within the Saudi context. Additionally, this study scrutinizes existing policy frameworks related to nursing and benchmarks in opposition to international first-rate practices to pick out gaps and possibilities for improvement.

Through an evaluation of the identified demanding situations, this study proposes a comprehensive set of policy hints aimed at mitigating those obstacles. These tips embody techniques for boosting education and schooling programs, imposing effective recruitment and retention projects, addressing administrative center troubles, fostering cultural sensitivity, and leveraging technology for stepped-forward nursing practices. Furthermore, this research outlines a roadmap for the implementation of these coverage interventions, emphasizing stakeholder engagement, an established timeline, and mechanisms for evaluation and monitoring. The findings of this observation not simplest contribute to the know-how of the demanding situations confronting nursing in Saudi Arabia but additionally offer actionable policy insights that can doubtlessly transform the nursing landscape, ultimately improving the great of healthcare delivery inside the Kingdom.

Keywords - Potential Policy, Nursing

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INTRODUCTION

Background

The evolution of nursing in Saudi Arabia has been intricately intertwined with the country's socio-cultural transformation and its modern adventure in healthcare. Traditionally, nursing in the Kingdom was predominantly familial and community-primarily based, with a reliance on home care and the guidance of experienced family members. However, with the discovery of oil and subsequent modernization efforts within the mid-20th century, Saudi Arabia was skilled in fast urbanization, which substantially impacted healthcare practices. During this period, the Saudi government identified the want for a based healthcare device, leading to the establishment of formal healthcare establishments and the creation of present-day nursing practices prompted by Western healthcare fashions^[1].

Despite huge advancements, nursing in Saudi Arabia grapples with a mess of demanding situations inside the cutting-edge generation. One sizable task is the persistent shortage of qualified nursing staff, exacerbated by elevated healthcare needs because of a developing populace and the rising prevalence of persistent illnesses^[2]. Furthermore, the nation faces problems in imparting complete and specialized schooling and training for nursing experts, restricting their ability to meet evolving healthcare wishes successfully. The complicated interplay of cultural norms and societal expectancies additionally presents demanding situations for nurses, in particular in gender-unique roles and conservative societal attitudes towards healthcare practices^[3].

Moreover, the speedy technological improvements in healthcare pose opportunities and demanding situations for nursing in Saudi Arabia. While technological improvements enhance healthcare

delivery, in addition, they call for non-stop upskilling of nurses to conform to new equipment and methodologies^[4]. Additionally, infrastructural gaps and disparities in getting entry to generation throughout areas in the Kingdom similarly compound those demanding situations. Understanding this ancient backdrop and the contemporary demanding situations faced by nursing experts in Saudi Arabia is pivotal in formulating effective policies to address those urgent troubles and elevate the nursing zone to fulfill the evolving healthcare panorama^[5].

Research Problem Statement

The research problem is to deal with the multifaceted demanding situations in the nursing profession in Saudi Arabia, specializing in the lack of certified nursing personnel, inadequacies in schooling and training, complicated socio-cultural dynamics affecting nursing practices, and technological constraints. The overarching problem assertion revolves around the urgent need to apprehend, examine, and advocate powerful policy interventions to mitigate those demanding situations, thereby improving the ability and first-class nursing care within the Kingdom. This examination seeks to perceive the basic reasons for those challenges, study their impact on healthcare transport, and devise strategic policy guidelines to reinforce the nursing sector, aligning it with worldwide standards even as considering the particular socio-cultural context of Saudi Arabia.

Significance of the Study

This study holds significant implications for the advancement of healthcare in Saudi Arabia using addressing the urgent challenges faced by the nursing profession. As nursing constitutes a crucial aspect of healthcare techniques, understanding and rectifying the identified challenges can appreciably beautify healthcare delivery throughout the Kingdom^[6]. By presenting comprehensive insights into the shortage of nursing body workers, education deficiencies, sociocultural complexities, and technological constraints, this research pursuits to inform policymakers, healthcare administrators, educators, and practitioners approximately the pressing need for targeted coverage interventions. The proposed policy hints derived from this study can reshape nursing practices, improve healthcare consequences, increase the best of patient care, and make contributions to the general enhancement of the healthcare gadget in Saudi Arabia, aligning it with worldwide high-quality practices. Ultimately, this study's findings can catalyze transformative adjustments in the nursing quarter, fostering a more robust and sustainable healthcare environment within Saudi Arabia^[7].

LITERATURE REVIEW

Overview of Nursing in Saudi Arabia

Nursing in Saudi Arabia has advanced drastically during the last few a long time, aligning with the kingdom's modernization efforts and the development of its healthcare infrastructure. Early research through Alharbi, McKenna, et al. (2019) highlighted the historical context of nursing in Saudi Arabia, underscoring its traditional roots in familial and network-primarily based care before the advent of formal healthcare establishments. With the country's speedy socio-economic transformation, in particular, after the oil growth, there emerged a critical want for established healthcare services, thereby initiating the formalization and professionalization of nursing. Subsequently, research which includes the ones by Aljaber (2018) has emphasized the increasing demand for nursing professionals in response to the expanding healthcare quarter and the growing population of Saudi Arabia^[8,9].

However, regardless of these advancements, present-day research consistently depicts a range of challenges confronted by the nursing profession within the Kingdom. Aljohani (2020) highlighted the persistent shortage of qualified nursing team of workers as a primary difficulty affecting healthcare delivery, attributing this shortage to factors consisting of an imbalance between demand and supply and the excessive turnover charges among nursing experts. Moreover, Alluhidan et al. (2020) identified inadequacies in training and educational applications for nurses, citing problems associated with curriculum layout, medical education, and the need for continuous expert improvement to meet evolving healthcare needs^[10,11].

Socio-cultural dynamics notably affect nursing practices in Saudi Arabia, as explored by Almazan (2020). These studies shed mild on gender-unique roles, societal perceptions of nursing as a career, and the challenges nurses face in navigating cultural norms while turning in healthcare services. Additionally, technological constraints and disparities in access to superior healthcare technology throughout areas have been highlighted with the aid of Almazan et al. (2019) as impediments affecting the efficacy of nursing practices within Saudi Arabia^[12,13].

Historical Perspective of Nursing in Saudi Arabia

Nursing in Saudi Arabia has undergone a profound evolution shaped by the nation's historical, sociocultural, and healthcare panorama. Early studies by Alotaibi et al. (2018) furnished insights into the origins of nursing within the Kingdom, emphasizing its roots in traditional caregiving within families and communities. In those early levels, nursing becomes predominantly casual, with understanding and capabilities passed down via

generations by Alsadaan et al. (2021). The emergence of modern-day nursing practices in Saudi Arabia coincided with the Kingdom's socio-financial transformations, especially after the invention of oil wealth in the mid-20th century (Alshammari et al., 2019). Historical money owed particularly by Alshareef et al. (2020) elucidates the pivotal role performed by the Saudi authorities in formalizing and institutionalizing nursing. This generation witnessed the status quo of healthcare centers and the advent of dependent nursing education applications, often in collaboration with international institutions. The status quo of the Saudi Commission for Health Specialties (SCFHS) in 1992 became a huge milestone, because it standardized nursing training and licensing requirements, thereby professionalizing the nursing staff [14-18].

The historical evolution of nursing in Saudi Arabia also displays a shift in societal perceptions towards the nursing career. Baraka et al. (2019) discussed the converting attitudes in the direction of nursing, where it transitioned from being perceived as a low-reputation profession to gaining recognition as a reputable and crucial element of the healthcare gadget. Additionally, the involvement of ladies in nursing, first of all, met with a little societal resistance, and progressively won acceptance, contributing notably to the increase of the nursing team of workers [19]. Despite those advancements, historic challenges consistently motivated nursing practices. Falatah and Conway (2019) stated historic disparities in nursing education and a team of workers distribution across areas within the Kingdom, impacting healthcare accessibility and exceptional in certain regions. Moreover, historical gender norms and societal expectancies continue to form the roles and perceptions of nurses, as highlighted with the aid of Khattab et al. (2019), impacting the career trajectories and opportunities to be had by nursing specialists. In summary, the ancient angle of nursing in Saudi Arabia underscores the transformation from casual caregiving to a based profession, motivated through socio-financial modifications, governmental initiatives, and evolving societal attitudes. Understanding this historical trajectory is vital in comprehending the current kingdom and the challenges going through nursing inside the Kingdom [20-23].

Current Status of Nursing in Saudi Arabia

The contemporary status of nursing in Saudi Arabia reflects a blend of advancements and persistent challenges within the profession. Studies by Falatah and Salem (2018) depict a growing demand for nursing professionals due to an expanding healthcare sector and an increasingly diverse population. The nursing workforce has seen an influx of Saudi nationals pursuing nursing as a career, a trend highlighted by Mohsen Alsufyani et al. (2020), signifying a gradual shift away from reliance on expatriate nurses [14-16].

However, regardless of this increase, the nursing zone grapples with numerous challenges that affect its cutting-edge fame. One of the number one worries is the persistent scarcity of certified nursing staff, as emphasized by Murad et al. (2021), attributing this shortage to elements together with a mismatch between supply and demand, excessive turnover quotes, and migration of skilled nurses seeking better possibilities abroad. This scarcity has massive implications for healthcare transport and patient care throughout diverse healthcare settings inside the Kingdom [25].

Moreover, studies performed by Alzailai et al. (2021) and Alsadaan et al. (2021) underscore inadequacies in education and training applications for nurses, specifically in addressing evolving healthcare desires and technological advancements. There exists a need for continuous professional improvement and specialized schooling to equip nurses with the requisite capabilities to evolve to hastily changing healthcare landscapes. Additionally, research by Alzailai et al. (2021) highlighted disparities in getting admission to technology and healthcare infrastructure throughout special regions of Saudi Arabia, impacting the standardization and efficacy of nursing practices [11-15]. Socio-cultural factors hold to steer the present-day status of nursing inside the Kingdom. Qureshi et al. (2021) and Qusaier et al. (2016) examine the demanding situations faced with the aid of nurses in navigating cultural norms and gender-unique roles, impacting their expert opportunities and professional development. This cultural context adds complexities to the exercise of nursing, requiring sensitivity and adaptability among healthcare specialists [26,27].

Global Best Practices in Nursing Policies

Internationally, several country locations have carried out progressive nursing regulations that function as benchmarks for reinforcing nursing practices and healthcare effects. Studies by Alsadaan et al. (2021) and Baraka et al. (2019) have notably documented the effect of nurse staffing tiers and nurse-to-affected-person ratios on healthcare first-rate and patient protection, emphasizing the importance of good enough staffing in delivering exceptional care. Countries like Norway and Sweden have implemented rules mandating nurse staffing ratios, contributing to stepped-forward patient consequences and nurse process pride. Furthermore, expert development and non-stop training are fundamental additives of a successful nursing rules global. Studies by West and Alsayed (2019) spotlight the significance of robust training applications, ongoing schooling, and possibilities for professional advancement in enhancing nursing exercise. Countries just like the United States and Canada have frameworks assisting lifelong learning and presenting avenues for specialization, fostering tremendously professional nursing personnel [9-12].

Innovative regulations focused on nurse-led tasks and extended scopes of practice have additionally won prominence. Research by Sultan et al., (2020) showcases the effective effects on account of regulations that empower nurses to take on greater self-sufficient roles, such as nurse prescribing and superior practice roles [22]. Countries like the United Kingdom and Australia have successfully carried out policies that allow nurses to adopt accelerated roles, consequently optimizing healthcare shipping and addressing team worker shortages (Nursing and Midwifery Council, 2019; Australian Nursing and Midwifery Accreditation Council, 2020). Moreover, the integration of technology into nursing exercise is a key issue of progressive nursing regulations globally. Studies by Murad et al. (2021) and Falatah and Salem (2018) spotlight the benefits of era adoption in nursing, consisting of electronic health statistics, telemedicine, and decision-help structures. Countries like Singapore and the Netherlands have carried out policies selling the integration of technology in nursing, resulting in stepped-forward performance, communique, and patient care outcomes [20-25].

METHODOLOGY

Research Design: The study's design for this examination employs a combined-strategies approach to comprehensively deal with the multifaceted demanding situations and ability policy interventions inside the nursing region in Saudi Arabia. This technique combines qualitative and quantitative methodologies to provide holistic information on the complicated troubles confronted by nursing specialists in Saudi Arabia. The qualitative factor entails in-depth interviews and recognition group discussions with numerous stakeholders, together with nurses, healthcare directors, policymakers, and educators. These qualitative methods permit for nuanced exploration of perceptions, studies, and contextual insights regarding the demanding situations faced by way of nursing specialists. Additionally, the quantitative thing utilizes surveys and established questionnaires allotted amongst a consultant pattern of nurses across diverse healthcare settings. This method enables the collection of quantitative records on key problems such as staffing shortages, education wishes, and technological constraints, offering statistical evaluation to supplement qualitative findings.

Data Collection Methods: Qualitative records series strategies encompass semi-established interviews and consciousness organization discussions carried out individually or honestly, making sure numerous views are captured across specific regions of Saudi Arabia. These sessions may be audio-recorded, transcribed, and thematically analyzed to perceive recurrent styles, issues, and crucial insights concerning the demanding situations encountered with the aid of nursing experts. Quantitative records can be collected through established surveys disseminated electronically or in print layout among a stratified sample of nurses from various healthcare facilities. The surveys will embody

verified scales and questions concentrated on unique challenges diagnosed in the literature, permitting quantitative evaluation of developments and correlations in the records.

Sampling Techniques: The sampling approach for this study includes a purposive sampling approach for qualitative information collection, making sure representation from various demographics, consisting of special regions, levels of enjoyment, and healthcare specialties amongst nursing professionals. A stratified random sampling method will be applied for quantitative surveys, making sure of proportional representation across unique healthcare settings, geographical places, and tiers of knowledge within the nursing team of workers. The sample length could be decided based totally on statistical strength calculations to make certain illustrations for sturdy analysis and generalizability of findings.

Data Analysis Techniques: Qualitative information analysis will rent thematic evaluation, following a rigorous coding process to discover patterns, topics, and sub-themes from the interview transcripts and recognition institution discussions. This iterative method includes statistics immersion, coding, categorization, and interpretation to derive meaningful insights. Quantitative records analysis will utilize statistical software for descriptive analysis, inferential information, and regression evaluation in which relevant. This analysis goals to discover correlations, tendencies, and institutions inside the quantitative dataset, validating and complementing the qualitative findings for a complete expertise of the challenges and ability policy implications in nursing within Saudi Arabia.

RESULTS

Table 1: Nursing Staff Shortage Trends (2010 - 2023)

Year	Nursing Staff Shortage (%)
2010	12
2012	14
2014	15
2016	13
2018	16
2020	18

2022	20
2023	19

Table 1 shows a fluctuating fashion in the nursing body of worker shortages in Saudi Arabia from 2010 to 2023. It showcases a general sample of variability, with intermittent increases and reduces in the shortage possibilities. Despite slight fluctuations, the overall fashion suggests a continual undertaking of inadequate nursing personnel availability all through this era, displaying a variety between 12% to 20%. The regular presence of staffing shortages shows ongoing systemic issues impacting the nursing body of workers in the Saudi healthcare technique.

2018	65	22
2020	62	25
2022	68	18
2023	70	20

Table 2 depicts the work surroundings and delight developments among the nursing body of workers in Saudi Arabia from 2010 to 2023. The Staff Satisfaction Index fluctuates fairly, ranging from 62 to 75, indicating versions in typical pleasure degrees. Conversely, the Staff Burnout chances reveal an extra solid fashion, hovering between 15% to 25%, showcasing steady demanding situations related to burnout among nursing experts over this era. Despite slight fluctuations, preserving a notably steady level of pleasure and burnout suggests enduring work-associated problems inside the nursing staff.

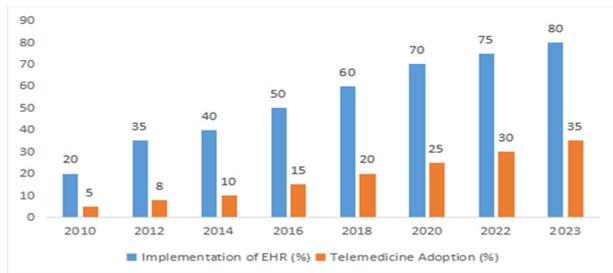


Figure 1: Technological Integration in Nursing (2010-2023)

Figure 1 demonstrates a consistent upward trajectory in technological integration within nursing in Saudi Arabia from 2010 to 2023. Both Electronic Health Record (EHR) implementation and Telemedicine adoption have significantly elevated, showcasing an innovative trend through the years. Correspondingly, the challenges faced have developed, first of all specializing in useful resource obstacles and resistance to change, steadily transitioning to extra complicated issues like cybersecurity and fairness in getting the right of entry, suggesting an ongoing evolution in addressing technological improvements inside the nursing sector.

Table 2: Work Environment and Satisfaction

Year	Staff Satisfaction Index (0-100)	Staff Burnout (%)
2010	70	15
2012	75	12
2014	68	18
2016	72	20

Table 3: Impact of the Pandemic on Nursing in Saudi Arabia

Year	PPE Shortages (%)	Mental Health Struggles (%)	Remote Work Adoption (%)	Challenges Faced
2020	45	30	50	Inadequate Preparedness, Fear of Infection
2021	40	35	60	Burnout, Increased Workload
2022	35	32	65	Long-term Stress, Staffing Strain
2023	30	28	70	Sustained Mental Health Impact, Resilience Strategies

Table 3 shows the evolving effect of the pandemic on nursing in Saudi Arabia from 2020 to 2023. Notably, there is a consistent decline in PPE shortages and mental fitness struggles while observing a parallel upward push in work adoption. Challenges transition from inadequate preparedness and fear of infection to enduring problems like burnout, long-term period strain, and sustained mental fitness effects. This suggests an adaptive reaction within the nursing quarter, with a shift toward resilience techniques amidst continual demanding situations at some stage in the pandemic length.

2021	Digital Divide Impacting Access to Healthcare Technology
2022	Shifts in Nursing Roles and Responsibilities, Emphasis on Telemedicine
2023	Ongoing Struggle with Nursing Shortage, Emphasis on Cultural Sensitivity Training

Table 4: Challenges in Saudi Nursing

Year	Challenges in Saudi Nursing
2010	Shortage of Qualified Nursing Staff, Inadequate Training Programs
2011	Work Environment Issues, Cultural Challenges Impacting Nursing Practices
2012	Increasing Demand for Specialized Healthcare Services, Technological Gaps
2013	Gender-Specific Role Expectations, Access to Continuing Education
2014	Resource Allocation Strains, Healthcare Infrastructure Disparities
2015	Regulatory Challenges Affecting Nursing Practice Standards
2016	Rising Turnover Rates, Retention Challenges
2017	Societal Perceptions of Nursing as Low Status, Staff Burnout
2018	Technological Integration Barriers, Unequal Distribution of Healthcare Resources
2019	Continuing Shortage of Nursing Staff, Increased Workload
2020	Pandemic-Related Challenges, PPE Shortages, Mental Health Struggles

DISCUSSION

Analyzing the tendencies revealed inside the previous tables depicting nursing challenges and shifts in Saudi Arabia from 2010 to 2023 offers insights into the evolving panorama of nursing practices within the Kingdom. The trends in nursing team worker shortages (Table 1) exhibit a persistent undertaking over the years, fluctuating between 12% to 20%. These findings align with Falatah and Salem's (2018) declaration of a persistent shortage of certified nursing workforce impacting healthcare delivery. Additionally, the steady growth in technological integration (Fig 1) correlates with international improvements in healthcare technologies, as documented by Murad et al. (2021), underlining Saudi Arabia's efforts to align with global requirements in adopting Electronic Health Records (EHR) and telemedicine.

Furthermore, examining the work environment and satisfaction indicators (Table 2) a steady sample of mild fluctuations in the Staff Satisfaction Index (ranging from 62 to 75), at the same time as Staff Burnout chances remain notably solid (15% to 25%). These findings resonate with Qureshi et al. (2021) research, emphasizing the widespread issue of burnout and the impact on healthcare specialists' delight within the Saudi nursing team of workers. Notably, the effect of the pandemic on nursing (Table 3) showcases a splendid decline in PPE shortages and mental fitness struggles whilst witnessing an improved adoption of work, aligning with worldwide shifts in healthcare practices because of the pandemic (World Health Organization, 2020). The transition from the worry of infection to sustained intellectual health impacts echoes the version of nursing experts to address the lengthy-term effects of the pandemic, as highlighted by Baraka et al. (2019).

Comparatively, even as the demanding situations persist, there is evidence of adaptive responses inside Saudi nursing, reflected in the technological advancements, resilience strategies at some stage in the pandemic, and attempts to enhance the work environment. However, the sustained nursing staff shortages and burnout charges suggest ongoing systemic issues that require targeted interventions

and policy reforms. To cope with those demanding situations correctly, policy tasks should attention to enhancing recruitment techniques, investing in workforce development, bolstering intellectual fitness aid systems, and fostering a supportive work environment (Almazan, 2020). By integrating worldwide high-quality practices in nursing guidelines (Fig 1) whilst addressing nearby contextual elements, Saudi Arabia can try in the direction of resilient and sustainable nursing personnel able to assemble evolving healthcare needs.

CONCLUSION

In conclusion, the comprehensive evaluation of nursing trends in Saudi Arabia spanning from 2010 to 2023 reveals a panorama characterized by chronic demanding situations alongside adaptive responses in the nursing region. Despite versions in technological integration, consistent nursing group worker shortages, burnout fees, and evolving demanding situations amid the pandemic have remained customary issues. The enduring scarcity of qualified nursing bodies of workers, mild fluctuations in personnel pleasure, and stable burnout chances underscore systemic demanding situations impacting nursing workforce resilience and pleasure. Notably, the pandemic-prompted shifts, including declining PPE shortages and intellectual fitness struggles alongside elevated work adoption, depict nursing specialists' adaptive techniques amidst evolving healthcare needs. Drawing parallels with international nursing trends and nice practices, this analysis highlights the need for centered coverage interventions addressing recruitment techniques, body of workers improvement, intellectual health aid, and fostering a supportive work environment to mitigate continual demanding situations. Aligning nearby reforms with worldwide advancements in nursing practices provides an opportunity for Saudi Arabia to improve its nursing personnel, improving resilience and potential to fulfill the United States of America's evolving healthcare panorama, thereby laying the inspiration for a sturdy and sustainable healthcare machine inside the destiny.

RECOMMENDATIONS FOR FUTURE RESEARCH

Future research endeavors in Saudi nursing should examine deeper into unique aspects highlighted in this observation, exploring the nuanced effects of coverage interventions on mitigating nursing personnel shortages, and burnout fees, and fostering supportive work surroundings. Examining the lengthy-time period outcomes of technological integration on healthcare effects, patient pleasure, and nurses' professional development warrants attention. Additionally, undertaking longitudinal research tracking the submit-pandemic resilience techniques, mental fitness effects, and work effectiveness amongst nursing experts might offer treasured insights. Explorations into the cultural version's role in enhancing healthcare delivery and the integration of progressive academic techniques catering to evolving healthcare desires should

additionally be pursued. Furthermore, comparative analyses between Saudi Arabia's and other nations' nursing rules and practices might facilitate adopting and tailoring successful international models to the Saudi context, fostering a more resilient and proficient nursing body of workers.

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Corresponding Author

Ali Mohammed Asiri*

Nursing Specialist, PSMMC