Comprehensive Review of Healthcare System Challenges, Resource Distribution, and Patient Safety

Halima Ali Ahmed Alqaysi¹, Mohammed Masoud Hassan Al- Sarar², Nawal Mohammed Mohammed Alhetela³, Mashan Ali Mohammed Alsallum⁴, Mutyi Saleh Hadi Alyami⁵, Alhassan Rajeh Mohamed Alsuliman⁶, Salem Rajeh Mohamed Alsuliman⁷, Ali Yahya Hamad Almtyif⁸, Ali Hamad Al Sharyah⁹, Namah Abdullah Husain Alshokhah¹⁰, Saeed Abdalaziz Sahl Almatlag¹¹

Abstract

Healthcare systems all around the globe are experiencing a plethora of problems, namely ineffective operation of the supply chain, unfair division of access to important healthcare services, and questions about patients' security. These challenges differ from country to country depending on the current healthcare model, resources, and infrastructure available. This review will determine what has made the healthcare system inefficient and what role resource distribution has in patient safety. Based on the available literature review and research studies, this paper analyzes the various healthcare systems to understand how resources are managed and which strategies can best optimize patient safety. It gives an understanding of the issues that health facilities have when it comes to issues of fairness, availability, and quality.

Keywords: Healthcare Systems, Resource Distribution, Patient Safety, Healthcare Inequality, Healthcare Models, Healthcare Challenges, Equity, Access to Care.

Introduction

Healthcare systems are encountering numerous issues, and the efficiency of the resources, system design, and policies play an important role in determining the capacity to deliver healthcare services. Meanwhile, there are differences in how the healthcare systems have been implemented; some have universal healthcare, and some have an insurance-based approach (Mohammad et al., 2024a; Mohammad et al., 2023a; Mohammad et al., 2024b). Despite these differences, most healthcare systems have challenges relating to accessibility, affordability, and treatment efficacy. Such challenges that these empowerment efforts encourage are further burdened by a lack of equal distribution of resources, relatively meager funding, and inherent system flaws. Lastly, patient safety is also an important consideration that defines health impact and perception of health care organizations. This review aims to discuss healthcare management problems, including redistribution of resources and increased exploration of patient safety issues.

¹ Ministry of Health, Saudi Arabia, Email: haalqisi@moh.gov.sa

² Ministry of Health, Saudi Arabia, Email: malsarrar@moh.gov.sa

³ Ministry of Health, Saudi Arabia, Email: nalhetela@moh.gov.sa

⁴ Ministry of Health, Saudi Arabia, Email: maaalsallum@moh.gov.sa

⁵ Ministry of Health, Saudi Arabia, Email: mutyisa@moh.gov.sa

⁶ Ministry of Health, Saudi Arabia, Email: alhassanra@moh.gov.sa

⁷ Ministry of Health, Saudi Arabia, Email: sralsulaiman@moh.gov.sa

⁸ Ministry of Health, Saudi Arabia, Email: Aalmutyif@moh.gov.sa

⁹ Email: alhaalsharyah@moh.gov.sa

¹⁰ Email: nalshokah@moh.gov.sa

¹¹ Email: salmtlag@moh.giv.sa

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Literature Review

Healthcare System Challenges

Various challenges affect healthcare systems worldwide, which may significantly distort the delivery of equitable and accessible healthcare solutions. These challenges are complex and encompass issues related to inputs, processes, and outputs regarding resources, time, and money. In many regions, limited access to healthcare, limited available staff, and lack of inventory of needed products are the main factors for the inefficiency and poor health outcomes. As noted in a wide range of works, these factors are expressed in different ways depending on the country's economic and, in certain cases, developmental level (National Academies Press (US), 2018).

Weaknesses are evidenced by the fact that low- and middle-income countries are most affected by the frail healthcare structure that hampers the provision of basic services. For instance, numerous regions in these countries have been described as having inadequate access to medical service providers and human resources needed to provide medical services (Health Canada, 2004; Mohammad et al., 2023b; Al-Hawary et al., 2020; Al-Husban et al., 2023) Where there is a shortage of equipment and medication, the prevalence of diseases and death rate is high due to avoidable diseases. The WHO has pointed out that the growing healthcare needs of the population in such countries indicate that the healthcare systems in these nations are understaffed and underfinanced and, therefore, not prepared to meet the healthcare challenges during emergencies.

On the other hand, developed and wealthy nations with sophisticated healthcare systems face challenges. Even though all these countries possess structures and requisite amenities, many face challenges ranging from overloaded systems to high costs and inefficiency. For instance, it is well known that many of the countries in the high-income group face an increasing consumer demand for health care, given a rising population of citizens in the senior age group and a rising incidence of chronic diseases (Oleribe et al., 2019; Al-Nawafah et al., 2022; Alolayyan et al., 2018; Eldahamsheh, 2021). This stresses healthcare organizations, so they have long periods of waiting time for ambulatory patients, which will influence the patient's results. Add to this the dimensions like unpredictable funding and sometimes bad economic conditions, which make it hard for these systems to meet the increasing need for services.

The COVID-19 year was a good example, which reminded the governments of any country, even developed ones, how vulnerable their healthcare systems can be if tested frequently and simultaneously intensively (Figueroa et al., 2019). Most of the countries, including some of the developed countries that have good health facilities, also found themselves ill-equipped to deliver the necessary level of care during the initial period of the COVID-19 outbreak due to the unmanageable influx of patients, PPE shortages, and demanding workloads on medical professionals. It became clear that the country needed to develop better capital stock and resources, learn from this type and level of shock, and be ready to respond to such changes.

Resource Distribution in Healthcare Systems

Proving the distribution of resources is critical in providing extensive equal access to healthcare; however, inequalities in the distribution of healthcare resources are one of the leading causes of healthcare inequality. The main assets and liabilities in the health care system include health facilities, health personnel, health commodities, and health equipment. These resources are often unavailable in equal packages depending on the areas in question, with the urban area enjoying a better share than the rural areas. Urban centers are normally better endowed with facilities, practitioners, hospitals, and other medical equipment than rural areas that face acute scarcity of these important inputs.

For instance, in several LAMI countries, it has been realized that health facilities in developing rural areas are poorly developed, leading to inequality in health facilities. Health facilities tend to be up to par in urban areas because of the areas' high population density and economic productivity. It is important to note that such discrepancies are evident in developing and developed countries, such as the United States of America,

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where rural dwellers have poor access to healthcare because of the lack of resources and scarcity of health professionals. Numerous researchers have presented their work, presenting specifically rural inhabitants as experiencing lower levels of user health care and higher levels of avoidable ailments than urban counterparts.

As will be seen, the distribution of health care has not only a geographical dimension but also an economic one. In many healthcare systems, especially those in the developed world, where the systems offer private and mixed healthcare, the resources are distributed depending on the patient's ability to pay. In these systems, the poor are always locked out from enjoying better healthcare facilities than the richest in society. This leads to even more controversies in the systems of healthcare because often unfairly treated minorities cannot afford medical assistance. Besides, deterioration in people's health renders them more susceptible to severe diseases and death due to a lack of access to preventative and early diagnostic care services by disadvantaged people.

The other problem with resources is funding, which is again insufficient and may result in a shortage of key drugs and instruments. Healthcare professionals practicing in many nations, most of which possess adequate and well-developed care delivery systems, report countless difficulties that adequately address the scarcity of requisite assets to respond to the increasing rates of persons seeking care. These shortages can lead to postponement of treatment and a generally poor standard of services. Investigations have shown that high working pressure compromises service delivery and patient outcomes since medical workers will only do their best when adequately equipped.

Patient Safety Concerns

Thus, patient safety is a continuous and major concern in healthcare organizations. He indicated that patient safety concerns have remained a clamp issue worldwide despite mega investments in quality improvement programs and safety measures. These issues go under a very broad umbrella concerning, among most healthcare faculties, medical mistakes, infections that patients get in the hospital, wrong medication administration, the lack of proper infection control, and poor communication between physicians. Like other negative patient outcomes, such issues compromise care quality and have strong economic implications.

The survey also confirmed that patient safety is at higher risk when there is a staff shortage, improper nurse training, and more patients are coming for treatment. At times, various challenges facing health care practitioners act as impediments towards delivering best practice care because these professionals are overwhelmed by work and receive little encouragement, often working in high-stress environments that further compel them to commit mistakes. The scarcity of personnel entails that a few healthcare workers attend to more patients and may make more hasty decisions due to overcrowded schedules and overlook significant details. This puts patients at risk of contracting adverse events related to medications, surgery, and other related circumstances, most of which could have been prevented.

One of the other paramount dangers to patient security is hospital-acquired infections (HAIs). Such infections, acquired during a hospital stay, can cause serious complications, increase the length of stay, and occasionally cause death. Some of the causes of the spread of the infection in the health care setting include lack of professional hand washing and the failure to properly sterilize the instruments. HAIs have been linked to significant morbidity and mortality. As a result, admitting them is an essential process that requires more than simple solutions such as increased cleanliness protocols, improved infection control, and improved staff training and education.

However, the conversation between care providers is also an important procedure that can reduce patient hazards. Communication breakdown can happen at the interface between caregivers or when transferring the patient from one facility to another or between different specialties, ultimately resulting in wrong diagnosis, wrong treatment, and even wrong medication (Figueroa et al., 2019; Alzyoud et al., 2024; Mohammad et al., 2022; Rahamneh et al., 2023). Research indicates that keeping communication internal

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between healthcare staff and their patients can enhance and reduce the risk of error. Implementations like communication standard tools, electronic health records, and team care help enhance patient safety.

Nevertheless, patient safety has not ceased to receive attention since carryouts of protocol and safety standards meant to reduce errors and improve patient safety have not stopped. These include implementing research findings, promoting the patient's involvement, and using technology to track patient safety incidents. However, to achieve these improvements on a large scale, systems thinking must be applied to solve the underlying causes of patient safety problems, including staff deficit, inadequate training, and ineffective practice.

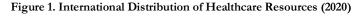
Thus, the analyzed spheres reveal quite several challenges that healthcare systems face that are inherent to resource allocation, distribution, and patient safety (Farokhzadian et al., 2018; Al-Azzam et al., 2023; Al-Shormana et al., 2022; Al-E'wesat et al., 2024). Solving these problems is only possible when actions are taken at a systemic level: to invest in the development of healthcare structure, improve resource distribution, and increase patient safety. In this way, and dealing with these and other problems' root causes, health systems could contribute to better population health, including the most marginalized.

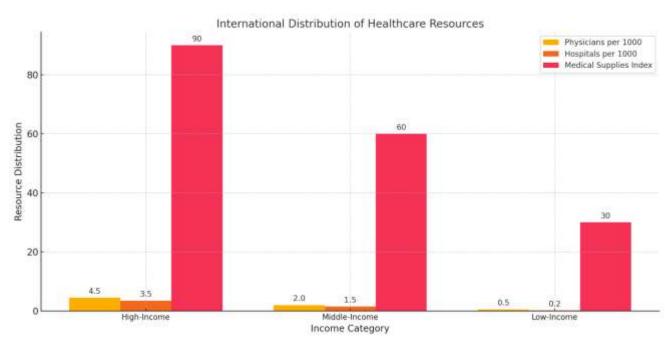
Methods

Because this review assesses problems concerning health systems, resources, and patient safety, it utilizes systematized data from case studies, surveys, and meta-analyses from 2010 to 2023. The methods include published literature reviews, both from indexed peer-reviewed publications and government reports and other reports in the healthcare industry.

To achieve this, we used qualitative analysis of data from the World Health Organization (WHO), the Centers for Disease Control and Prevention (CDC), and other international health organizations. Moreover, statistical methods were applied to dissect healthcare expenditure, resource availability, and patient safety information from various healthcare organizations.

Results and Findings





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The distribution of healthcare resources by panels of healthcare workers, hospitals, and medical supplies, with a comparison between high-income and low-income countries, should be presented in a bar chart.

Healthcare Resource Distribution Trends

A high income per capita is associated with higher capacity spending that determines better resource allocation, quality health facilities, and access to treatment. On the other hand, low income per capita entails major challenges in healthcare resource endowment. For example, the scarcity of physicians in rural areas or developing nations denies the delivery of efficient health care, which leads to high mortality rates. Competition and access to resources, particularly in Middle-income countries that have needs for both urban and rural areas but fail to provide the needs, mostly require assistance from the outside world or be reformed.

Table 1. Healthcare System Type Specific PSI (2021)

Healthcare System Type	Errors (%)	Hospital-Acquired Infections (%)
Universal	5%	2%
Private Insurance	15%	10%
Combination	10%	7%

[It is necessary to put a table with the frequency of patient safety incidents (errors, hospital-acquired infections) by the type of system: universal, private insurance, or a combination.]

Patient Safety Concerns

Thus, it is found that an efficient process flow contributes to much lower rates of patient safety issues in healthcare organizations. But here, too, staff overwork and insufficient training continue to play crucial roles in causing medical mistakes. Implementation problems are especially apparent in strained healthcare institutions where the necessary management is often lacking, and resources and funds for appropriate training and equipment are scarce.

Discussion

Distribution of Healthcare Resources and Its Impact

Hence, allocating healthcare resources is perhaps one of the greatest defining characteristics of any given healthcare delivery system. Healthcare utilization is highly determined by how available resources within healthcare facilities—human, physical, financial, and informational—are apportioned. The stated countries around the world, such as the United Kingdom or Canada, usually witness a more even distribution, especially where the subject country has a more or less universal health care system prevalent that, without discrimination, various people should have access to essential health care. These systems aim to attain the idea that health care should be seen as a social right, and the decentralization of funding and delivery of services seeks to cover all citizens. This equal distribution, in theory, should result in fairly good health status for patients within the different demographic subgroups.

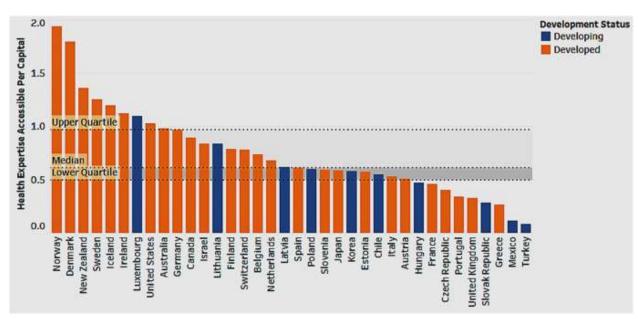


Figure: The Association Between Healthcare Resource Allocation and Health Status: An Empirical Insight with Visual Analytics

Source: (Raghupathi & Raghupathi, 2021)

However, even strong public healthcare systems are not protected from such problems as resource deficits. However, most such systems have faced the problem of very long waiting times. Such delays—especially in routine or ambulatory care or surgical procedures—can affect the quality of care. For example, a country like the UK has almost limitless money investment in the public health care systems, but the problem is that there are too many patients and too few doctors to care for them (Dawkins et al., 2021). These are compounded by a problem of insufficient funding and human resources in some areas or amongst specific categories of specialists. In addition, there are always bottlenecks or hindrances within bureaucratic systems; for instance, endless paperwork or inadequate funding of health services may slow down the delivery of the necessary supplies. Some of these inefficiencies are well illustrated when health challenges occur in a country because time and resources need to be deployed promptly.

It is useful to emphasize that universalism is generally founded on equal access; however, this aim might be distorted as unlimited resources do not exist. This means that leaders may make hard choices based on fair systems for providing care, but disparities do exist. Inequalities of pay and current staffing methods, especially in the public sector, can mean low-paid workers who may also be overworked; thus, the quality of care is compromised.

In the privatized healthcare sector, healthcare resources are far more inclined towards market dynamics, where people are treated according to their ability to pay for healthcare services or insurance coverage status. In this model, healthcare services are more likely to be high-quality, especially in specialized services and technology. However, the use of such services is not safe for everyone (Crowley et al., 2020). Many disadvantaged populations, including the poor, the uninsured, and people of color, suffer enormous difficulties accessing proper health care.

This is particularly true where privatized healthcare systems exist because the distribution of resources in line with this model adds to this dysfunction in health. For instance, patients who never had insurance

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strategies rarely accredit themselves to preventive care; therefore, diseases are discovered at later stages and can only be treated and not cured as they would have been if they were diagnosed early enough. In addition, people from low economic status are at risk of compromising on the quality of care they receive, and therefore, mortality rates may drop. This again contributes to a situation in which people without access to proper care meet new health problems and are likely to need some high-technology services, which again widen the gap of health disparities.

Furthermore, such inequality significantly harms the safety interests of patients. For instance, where health care services are paid for out of pocket, it is the poor who contract diseases who will suffer the increased exposure to medical negligence (Sun et al., 2024). Such segments of a population have been reported to be receiving substandard care and complications due to late treatment. The unavailability of preventative services, routine screening, and specialist care in poorly underprivileged areas results in increased cases of preventable ailments, increasing health inequality and patient safety.

Patient Safety Concerns Across Healthcare Systems

Education conceded that patient safety is still one of the most significant issues witnessed in all models of healthcare systems, whether public or privatized. The care offered to the patient is related to the safety standards in the respective healthcare facilities. In the past couple of decades, many efforts have been made in patient safety, for instance, the adoption of EHR systems, which are vital in monitoring patients' information and lessening medical blunders, such as medicine errors. The organization has also standardized treatment protocols across differing healthcare facilities to treat patients according to the available evidence and practices. Moreover, most healthcare organizations usually implement elaborate policies of staff education to foster safe, effective care from healthcare staff.

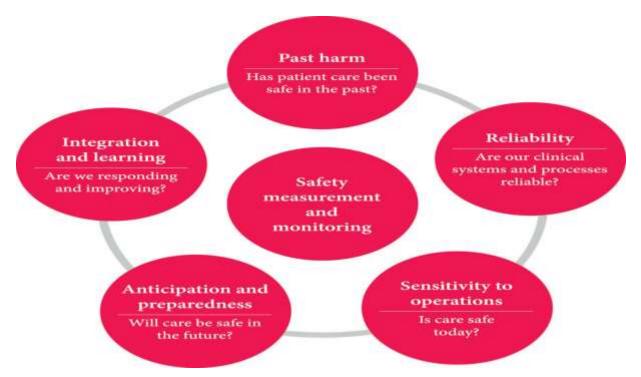


Figure: A Framework to Guide Clinical Teams and Healthcare Organizations in Maintaining Safety

Source: (Vincent et al., 2015)

However, many problems are still left even today, as discussed in the current article. One of the main topics that are characteristic of healthcare systems in general, including their structural reforms, is the problem of staff shortages. Nurse and primary care physician shortages result in fatigued workers who are paid to supervise patients but may not necessarily do so diligently. Previous research on staffing shortages has

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defined adequate staffing as a minimal patient-adverse ratio and argues that inadequate personnel supply is strongly associated with increased iatrogenesis, including nosocomial infections, unwanted surgical outcomes, medication mishaps, and product defects. Also, when the healthcare personnel are overworked, they rarely have adequate time and energy to feel patient, for example, dropping communication barriers, which can also put more danger in patient safety.

Other consequences of overwork and stress on healthcare workers can also be observed at the level of the quality of care. There is always a risk of burnout in both healthcare organizations: this condition jeopardizes the ability to make intelligent decisions and negatively affects the quality of the care delivered. This is particularly apparent when people need to see many patients, for example, in the emergency department or the intensive care unit. Again, in privatized systems, the patients are many, and often, the health care professionals will be motivated to work faster to meet the set goals or targets, and this will lead to burnout, increased errors, and, therefore, compromising the safety of patients (De Hert, 2020).

In addition, patient engagement is instrumental in the compound's safety outcomes: insufficient levels of nursing engagement can harm safety performance. If patients are not actively engaged in managing their health, there is a chance for miscommunication or medical oversight. The electronic health records system is crucial to enhance the patient-provider communication ability, enabling the patient to understand his/her treatment plan and medications he/she will take, including the risks that he/she is likely to encounter. In healthcare organizations where patients are not completely involved because they potentially do not understand what they are told, cannot read, or have no access to the healthcare system, the safety of such patients is at risk.

Also, it is regrettable that personal clinician implicit bias works against the pursuit of safe patient care. Studies also provide evidence that the health needs of color, especially in a privatized system, can be worse off than their White counterparts. The authors argue that prejudice and stereotyping by healthcare providers are the major contributors to disparities in diagnoses, interventions, and outcomes for patient care. That said, any effort towards correcting these biases by enhancing the knowledge base.

Conclusion

Many developed and developing healthcare systems have problems with resource allocation, availability, and universal patient safety. The main reasons for variation in healthcare provision, availability, and provision of quality healthcare include the economic financing systems and geographical distribution of healthcare amenities. While UHC entails wider coverage and more equity for its users, it does not lack structural problems or patient safety issues. Managing these issues calls for organizational alteration of the treatment practices and enhancement of the educational procedures, technological resources, and legal frameworks.

Recommendation

To overcome these challenges, the following recommendations are proposed:

- Increase Investment in Healthcare Infrastructure: Governments ought to invest in developing health facilities, especially in areas that lack adequate facilities.
- Improve Resource Allocation: Forecasting and policies should allocate resources fairly so that the respective vulnerable groups get the care they need.
- Enhance Patient Safety Protocols: Healthcare facilities must enhance patients' safety by providing knowledge to personnel, communicating processes, and applying technology to minimize medical mistakes.

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• Strengthen Universal Health Coverage: The availability and affordability of healthcare should be improved considerably, mainly to level out the presently existing disparities in insurance.

Implement Data-Driven Decision-Making: Integrated care delivery should also be anticipated as a need that healthcare systems should address when using big data and Android intelligence to forecast other patient requirements for resource allocation.

References

- Al-Azzam, M. A. R., Alrfai, M. M., Al-Hawary, S. I. S., Mohammad, A. A. S., Al-Adamat, A. M., Mohammad, L. S., Alhourani, L. (2023). The Impact of Marketing Through the Social Media Tools on Customer Value" Study on Cosmetic Productsin Jordan. In Emerging Trends and Innovation in Business and Finance (pp. 183-196). Singapore: Springer Nature Singapore.
- Al-E'wesat, M.S., Hunitie, M.F., Al sarayreh, A., Alserhan, A.F., Al-Ayed, S.I., Al-Tit, A.A., Mohammad. A.A., Al-hawajreh, K.M., Al-Hawary, S.I.S., Alqahtani, M.M. (2024). Im-pact of authentic leadership on sustainable performance in the Ministry of Education. In: Hannoon, A., and Mahmood, A. (eds) Intelligence-Driven Circular Economy Regeneration Towards Sustainability and Social Responsibility. Studies in Computational Intelligence. Springer, Cham. Forthcoming.
- Al-Hawary, S. I. S., Mohammad, A. S., Al-Syasneh, M. S., Qandah, M. S. F., Alhajri, T. M. S. (2020). Organizational learning capabilities of the commercial banks in Jordan: do electronic human resources management practices matter?. International Journal of Learning and Intellectual Capital, 17(3), 242-266. https://doi.org/10.1504/IJLIC.2020.109927
- Al-Husban, D. A. A. O., Al-Adamat, A. M., Haija, A. A. A., Al Sheyab, H. M., Aldai-hani, F. M. F., Al-Hawary, S. I. S., Mohammad, A. A. S. (2023). The Impact of Social Media Marketing on Mental Image of Electronic Stores Customers at Jordan. In Emerging Trends and Innovation in Business And Finance (pp. 89-103). Singa-pore: Springer Nature Singapore. https://doi.org/10.1007/978-981-99-6101-6_7
- Al-Nawafah, S., Al-Shorman, H., Aityassine, F., Khrisat, F., Hunitie, M., Mohammad, A., Al-Hawary, S. (2022). The effect of supply chain management through social media on competitiveness of the private hospitals in Jordan. Uncertain Supply Chain Management, 10(3), 737-746. http://dx.doi.org/10.5267/j.uscm.2022.5.001
- Alolayyan, M., Al-Hawary, S. I., Mohammad, A. A., Al-Nady, B. A. (2018). Banking Service Quality Provided by Commercial Banks and Customer Satisfaction. A structural Equation Modelling Approaches. International Journal of Productivity and Quality Management, 24(4), 543–565. https://doi.org/10.1504/IJPQM.2018.093454
- Al-Shormana, H., AL-Zyadat, A., Khalayleh, M., Al-Quran, A. Z., Alhalalmeh, M. I., Mohammad, A., Al-Hawary, S. (2022).

 Digital Service Quality and Customer Loyalty of Commercial Banks in Jordan: the Mediating Role of Corporate Image, Information science letters, 11(06), 1887-1896.
- Alzyoud, M., Hunitie, M.F., Alka'awneh, S.M., Samara, E.I., Bani Salameh, W.M., Abu Haija, A.A., Al-shanableh, N., Mohammad, A.A., Al-Momani, A., Al-Hawary, S.I.S. (2024). Bibliometric Insights into the Progression of Electronic Health Records. In: Hannoon, A., and Mahmood, A. (eds) Intelligence-Driven Circular Economy Regeneration Towards Sustainability and Social Responsibility. Studies in Computational Intelligence. Springer, Cham. Forthcoming.
- Crowley, R., Daniel, H., Cooney, T. G., & Engel, L. S. (2020). Envisioning a Better U.S. Health Care System for All: Coverage and Cost of Care. Annals of Internal Medicine, 172(2_Supplement), S7. https://doi.org/10.7326/m19-2415
- Dawkins, B., Renwick, C., Ensor, T., Shinkins, B., Jayne, D., & Meads, D. (2021). What factors affect patients' ability to access healthcare? An overview of systematic reviews. Tropical Medicine & International Health, 26(10), 1177–1188. https://doi.org/10.1111/tmi.13651
- De Hert, S. (2020). Burnout in Healthcare Workers: Prevalence, Impact and Preventative Strategies
 Local and Regional Anesthesia, Volume 13, 171–183. https://doi.org/10.2147/lra.s240564
- Eldahamsheh, M.M., Almomani, H.M., Bani-Khaled, A.K., Al-Quran, A.Z., Al-Hawary, S.I.S& Mohammad, A.A (2021). Factors Affecting Digital Marketing Success in Jordan. International Journal of Entrepreneurship, 25(S5), 1-12.
- Farokhzadian, J., Nayeri, N. D., & Borhani, F. (2018). The long way ahead to achieve an effective patient safety culture: challenges perceived by nurses. BMC Health Services Research, 18(1). https://doi.org/10.1186/s12913-018-3467-1
- Figueroa, C. A., Harrison, R., Chauhan, A., & Meyer, L. (2019). Priorities and challenges for health leadership and workforce management globally: a rapid review. BMC Health Services Research, 19(1). https://doi.org/10.1186/s12913-019-4080-7
- Filip, R., Puscaselu, R. G., Anchidin-Norocel, L., Dimian, M., & Savage, W. K. (2022). Global Challenges to Public Health Care Systems during the COVID-19 Pandemic: A Review of Pandemic Measures and Problems. Journal of Personalized Medicine, 12(8), 1295. https://doi.org/10.3390/jpm12081295
- Health Canada. (2004, May 9). Certain Circumstances Issues in Equity and Responsiveness in Access to Health Care in Canada. Canada. Canada. https://www.canada.ca/en/health-canada/services/health-care-system/reports-publications/health-care-accessibility/certain-circumstances-issues-equity-responsiveness.html
- How to Improve Access to Health Care: Issues & Solutions | USC EMHA | USC EMHA Online. (n.d.). https://healthadministrationdegree.usc.edu/blog/how-to-improve-access-to-health-care

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https://ecohumanism.co.uk/joe/ecohumanism

DOI: https://doi.org/10.62754/joe.v3i8.5155

- Kruk, M. E., Gage, A. D., Arsenault, C., Jordan, K., Leslie, H. H., Roder-DeWan, S., Adeyi, O., Barker, P., Daelmans, B., Doubova, S. V., English, M., García-Elorrio, E., Guanais, F., Gureje, O., Hirschhorn, L. R., Jiang, L., Kelley, E., Lemango, E. T., Liljestrand, J., . . . Pate, M. (2018). High-quality health systems in the Sustainable Development Goals era: time for a revolution. The Lancet Global Health, 6(11), e1196-e1252. https://doi.org/10.1016/s2214-109x(18)30386-3
- Mistri, I. U., Badge, A., & Shahu, S. (2023). Enhancing Patient Safety Culture in Hospitals. Cureus. https://doi.org/10.7759/cureus.51159
- Mohammad, A. A. S., Alolayyan, M. N., Al-Daoud, K. I., Al Nammas, Y. M., Vasudevan, A., & Mohammad, S. I. (2024a).

 Association between Social Demographic Factors and Health Literacy in Jordan. Journal of Ecohumanism, 3(7), 2351-2365.
- Mohammad, A. A. S., Al-Qasem, M. M., Khodeer, S. M. D. T., Aldaihani, F. M. F., Alserhan, A. F., Haija, A. A. A., ... & Al-Hawary, S. I. S. (2023b). Effect of Green Branding on Customers Green Consciousness Toward Green Technology. In Emerging Trends and Innovation in Business and Finance (pp. 35-48). Singapore: Springer Nature Singapore. https://doi.org/10.1007/978-981-99-6101-6_3
- Mohammad, A. A. S., Barghouth, M. Y., Al-Husban, N. A., Aldaihani, F. M. F., Al-Husban, D. A. A. O., Lemoun, A. A. A., ... & Al-Hawary, S. I. S. (2023a). Does Social Media Marketing Affect Marketing Performance. In Emerging Trends and Innovation in Business and Finance (pp. 21-34). Singapore: Springer Nature Singapore. https://doi.org/10.1007/978-981-99-6101-6_2
- Mohammad, A. A. S., Khanfar, I. A., Al Oraini, B., Vasudevan, A., Mohammad, S. I., & Fei, Z. (2024b). Predictive analytics on artificial intelligence in supply chain optimization. Data and Metadata, 3, 395–395.
- Mohammad, A., Aldmour, R., Al-Hawary, S. (2022). Drivers of online food delivery orientation. International Journal of Data and Network Science, 6(4), 1619-1624. http://dx.doi.org/10.5267/j.ijdns.2022.4.016
- National Academies Press (US). (2018, March 1). Factors That Affect Health-Care Utilization. Health-Care Utilization as a Proxy in Disability Determination NCBI Bookshelf. https://www.ncbi.nlm.nih.gov/books/NBK500097/
- Nyawira, L., Tsofa, B., Musiega, A., Munywoki, J., Njuguna, R. G., Hanson, K., Mulwa, A., Molyneux, S., Maina, I., Normand, C., Jemutai, J., & Barasa, E. (2022b). Management of human resources for health: implications for health systems efficiency in Kenya. BMC Health Services Research, 22(1). https://doi.org/10.1186/s12913-022-08432-1
- Oleribe, O. E., Momoh, J., Uzochukwu, B. S., Mbofana, F., Adebiyi, A., Barbera, T., Williams, R., & Robinson, S. D. T. (2019). Identifying Key Challenges Facing Healthcare Systems In Africa And Potential Solutions
 International Journal of General Medicine, Volume 12, 395–403. https://doi.org/10.2147/ijgm.s223882
- Phillips, J., Malliaris, A. P., & Bakerjian, D. (2019, September 7). Nursing and Patient Safety. PSNet. https://psnet.ahrq.gov/primer/nursing-and-patient-safety
- Rahamneh, A., Alrawashdeh, S., Bawaneh, A., Alatyat, Z., Mohammad, A., Al-Hawary, S. (2023). The effect of digital supply chain on lean manufacturing: A structural equation modelling approach. Uncertain Supply Chain Management, 11(1), 391-402. http://dx.doi.org/10.5267/j.uscm.2022.9.003
- Six challenges to delivering quality healthcare. (2022, September 6). Wolters Kluwer. https://www.wolterskluwer.com/en/expert-insights/six-challenges-to-delivering-quality-healthcare
- Sun, X., Lv, B., Gao, X., & Meng, K. (2024). Can the allocation of primary health care system resources affect efficiency? A spatial Dubin model study in China. BMC Primary Care, 25(1). https://doi.org/10.1186/s12875-024-02290-y
- Vincent, C., Burnett, S., & Carthey, J. (2015). Safety measurement and monitoring in healthcare: a framework to guide clinical teams and healthcare organisations in maintaining safety. BMJ Quality & Safety, 23(8), 670–677. https://doi.org/10.1136/bmjqs-2013-002757
- What is Quality Improvement in Healthcare? (2024, February 13). SNHU. https://www.snhu.edu/about-us/newsroom/health/what-is-quality-improvement-in-healthcare.