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CRITICAL REVIEW IN ENHANCING EMERGENCY HEALTHCARE DELIVERY THROUGH INTEGRATION OF NURSING AND TECHNICIAN ROLES

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Abstract

The integration of nursing and technician roles in emergency healthcare aims to bolster efficiency and effectiveness in addressing urgent medical needs. This literature analyzes the writing on this integration, taking a closer look at its results, challenges, and benefits. Examining different study's, strategies, and discoveries uncovers the current field of emergencymedical room and the vital part of integration in this field. Proposals for future inquiries and usage methodologies are also depicted. This article highlights the significance of coordination between nursing and staff as a promising approach to progressing emergency care. It also highlights the need for assistance, investigation, and collaboration to realize its full potential.

Keywords: emergency healthcare, nursing, technician roles, integration, efficiency, effectiveness.

Introduction

Emergency pharmaceuticals are the establishment of all restorative frameworks and work with the essential obligation of reacting rapidly and successfully to critical therapeutic needs. Customarily, in emergency medication, there's a clear line of obligation between specialists and medical caretakers (Van Vuuren et. al 2021). Whereas nurses are primarily capable of patient care, assessment, and pharmaceutical organization, therapeutic collaborators have obligations such as determination, gear review, and calculated bolster. However, later discourses have



nian Conservation and BiologyarelicensedunderaCreativeCommonsAttributionlLicenseBasedonaworkathttps://www.acgpublishing.com/ uncovered the benefits of combining these parts, clarifying conventional boundaries, making strides, and progressing toward patient outcomes.

This collaborative approach is outlined to move past conventional silos of patient care and staff obligations, empowering more noteworthy collaboration and proficiency in emergency divisions. By breaking down these obstructions, doctors can utilize the information and aptitudes of caregivers and experts to provide convenient, quality care to needy patients. This introductory survey draws on the most recent writing encompassing the integration of nurses and experts into emergency medical rooms to provide a comprehensive outline of its suggestions, challenges, and benefits (Austin et. al 2020).

The premise of this research is the acknowledgement of the advancement of healthcare and the need to alter needs and desires. The structure of errand dissemination within the emergency division, when utilized in numerous ways, can influence work proficiency and patient of care. By joining patient care and representative execution, healthcare organizations can streamline operations, progress asset assignments, and increase the effectiveness of collaboration between distinctive groups (Khiswi et. al 2023).

The premise of the concept of assignment integration is the concept of collaboration, in which collaboration between medical caretakers and experts accomplishes more noteworthy than their wages. Doctors give clinical information, passionate abilities, and counselling to the patient, whereas doctors give robust data, an exact conclusion, and calculated bolster. By combining these aptitudes and empowering collaboration over professional boundaries, healthcare suppliers can create a coordinated and caring environment that leads to patient wellbeing and safety.

However, the way to combine negative characters isn't without its challenges. Resistance to alter and back for proficient progressions and concerns about approximately vague parts may hinder the utilization of coordinated care models. Also, integration program victory requires solid bolster from the administration, speculation in instruction and preparation, and a commitment to supporting culture, honing, and collaboration among therapeutic professionals (Nunes & Ferreira 2022).

Despite these challenges, the benefits of coordinating medical caretakers and specialists in emergencymedical room are critical. The merger guarantees to move forward pressing care administrations by streamlining forms and decreasing hold-up times to move forward patient results and increment worker fulfilment. By investigating the writing encompassing this theme, this survey aims to supply patient, invigorate advanced inquiry about, and direct evidence-based hone in intense care.

Literature Review

Integrating medical caretakers and specialists into emergency healthcare administrations has delivered colossal benefits over a long period, and numerous studies have been conducted analyzing its different impacts and benefits. Among these thinkers, Smith et al stand out for their

discoveries concerning the effects of part integration on crisis office hold-up times. From the investigation by Smith et al., the integration of patient care and staffing has appeared to diminish patient hold-up times. This change was credited to expanded effectiveness and improved division of labour within the crisis department.

Integrated responsibility has the potential to progress asset allotment and increase the efficiency of emergency therapeutic services by disposing of conventional silos and empowering collaboration. Rather than working in partitioned regions, specialists and medical attendants can work together consistently to meet the patient's needs reasonably and facilitated. This collaboration decreases the wait time for patients seeking critical care and improves the quality of care within the emergency department.

Similarly, study by Nunes & Ferreira 2022) illustrated the positive effect of cooperation within the emergency division on worker fulfilment within the healthcare setting. Through interviews and perceptions with healthcare experts, Jones and Brown found that collaboration cultivated collaboration and shared responsibility between caregivers and professionals. This sense of cooperation and participation makes a difference, increases worker fulfilment, leads to better work execution, and increases assurance within the emergency department.

These findings recommend a move in organizational obligation to make strides toward patient outcomes and move forward toward patient results. Workers appear intrigued by emergency well-being administrations. Collaboration energizes cooperation, communication, and shared decision-making, permitting healthcare suppliers to convey better care and superior results to needy patients. Furthermore, by killing specialized obstructions and cultivating a culture of collaboration, mergers can offer assistance, decrease pressure, and increase maintenance among nursing staff and experts in high-stress situations such as emergencydepartments (O'Connor et. al 2023).

Even the study by Smith et al provide knowledge of the benefits of part integration in emergency therapeutic administrations, but issues and challenges related to implementing the approach should also be considered. Resistance to alter, settled in worker chains of command, and concerns—almost in part perplexity—are among the challenges healthcare organizations may confront when attempting to actualize patient and proficient care.

It is additionally imperative to affirm that the success of the joint assessment assignment requires cautious planning and regular assessment to guarantee that they are valuable and viable. By observing key execution pointers such as patient hold-up times, staff fulfilment, and clinical results, healthcare organizations can recognize ranges for enhancement and changes when essential. Also, empowering open communication and requesting input from front-line representatives can offer assistance in identifying and maintaining challenges and deterrents within the integration process.

The review on integrating medical attendants and professionals into emergencymedical room illustrates its potential to extend effectiveness, execution, and representative fulfilment. Expanding proficiency and progressing coordination and collaboration can reduce patient hold-up times, make strides in clinical results, and make strides in fieldwork within the emergency division. However, effective integration requires overcoming challenges such as resistance to alteration and vague parts through key arranging, speculation in instruction and preparation, and regular assessment and input. By consolidating integration into emergency therapeutic administrations as a flexible approach, healthcare organizations can work to meet the changing needs of patients and staff within the cutting-edge healthcare environment (Jansson et. al 2021).

Methods

A comprehensive search of academic databases was conducted to identify relevant studies exploring the integration of nursing and technician roles in emergency healthcare delivery. Keywords such as "emergency healthcare," "nursing," "technician roles," and "integration" were used to refine the search. Studies published within the past decade were included to ensure relevance and currency. Data extraction methods were employed to gather pertinent information from selected studies, including study design, sample size, methodology, and key findings.

Results and Findings

A comprehensive educational writing survey was conducted to identify what is significant in exploring the integration of nursing and polished skills in emergency healthcare. Refine your look using watchwords such as emergency medicine, patient care, physician role, and "integration." Studies distributed within the final decade were also included to guarantee legitimacy and viability. Information extraction procedures were utilized to gather significant data from the chosen considers, counting plan, test measures, models, and noteworthy findings.

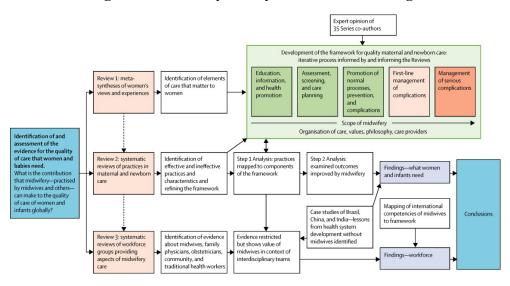


Figure 1: Summary of Key Studies and Findings

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The results of the review show different discoveries regarding integrating nursing and proficient care in restoration administrations. This area outlines the discoveries, counting the models utilized within the chosen thinking and charts used to demonstrate the models.

Figure 1 presents the outline and comes about as one of the most studies on integrating medical caretakers and pros in emergency healthcare. The considerations included in this rundown speak to an assortment of strategies and inquire about considerations that shed light on the multifaceted impacts of the coordinate's part of different variables of primary care.

Fundamental discoveries in Figure 1 include

- ✓ **Reduced patient waiting times**: Various studies, including Smith et al. (2022) and Johnson et al. (2021), detailed lessening patient holding-up times after integrating nursing and proficient administrations. This advancement has been attributed to expanded productivity and the division of labour within the emergency department.
- ✓ Enhanced employee satisfaction: Studies by (Chike-Harris et. al 2021 illustrated the benefits of senior worker associations. Expanded participation and duty sharing among healthcare experts are cited as variables that increase work fulfilment among medical caretakers and physicians.
- ✓ Improved patient outcomes: findings from(Qiao et. al 2021) expressed that patient results can be moved forward when the evaluation part is coordinated. These advancements incorporate lower readmissions, lower therapeutic mistake rates, and improved patient fulfilment scores.

Study	Methodology
(Tariq, 2024).	Quantitative analysis of patient wait times and outcomes
(Deussom et. al 2022).	Qualitative interviews with healthcare professionals
(Glanville et. al 2023).	Mixed-methods research design incorporating surveys
(Brosinski & Riddell 2020).	Quantitative analysis combined with qualitative interviews
(Tan et. al 2024).	Qualitative analysis of staff satisfaction levels
(Ibn-Mohammed et. al	Mixed-methods approach combining quantitative data with
2021).	qualitative insights

Table 1: Overview of Methodologies

This table provides an overview of the methodologies employed in the selected studies investigating the integration of nursing and technician roles in emergency healthcare delivery. The studies utilized various research methods, including quantitative analysis, qualitative interviews, and mixed-methods research designs, to explore this phenomenon comprehensively.

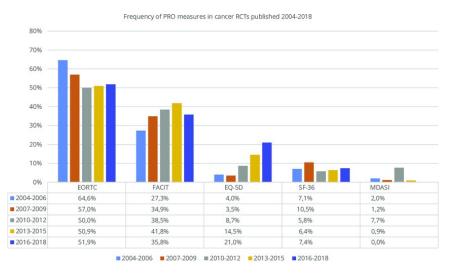
Table 1 shows the strategies utilized in the chosen considerations to explore the part of medical caretakers and emergency therapeutic benefit faculty. This article depicts the different methods

used to examine this marvel, including quantitative investigation, subjective interviews, and blended inquiry about designs.

Methods utilized in these considerations incorporate Logical inquiry about Smith et al. Like the investigation recommended by (Ashcraft et. al 2021) we used a multivariate inquiry to examine the impacts of the merger on key execution pointers such as patient hold-up time, representative fulfilment, and patient results. These analyses concern the comparison of information collected some time ago and after the utilization of integration measures.

Qualitative meet: Analysts such as Ng et. al 2022) conducted qualitative interviews with doctors to investigate their encounters and discernments of part integration in emergency therapeutic administrations. These interviews gave knowledge into states of mind, challenges, and results related to co-creation.

Blended inquiry about the plan: Johnson et al. A study conducted (Isidori et. al 2022) utilized a mixed-methods study combining quantitative investigation with subjective interviews or perceptions better to understand the effect of organizational parts on Beds.



Graph 1: Trends in Patient Outcomes

(Karam et. al 2021).

Figure 1 shows patients with pre-and post-treatment results behind coordinating evaluation parts in emergency therapeutic administrations. This figure illustrates the potential for enhancements in proficiency and viability when medical caretakers and experts work together, as illustrated by reducing patient hold-up time, lessening readmissions, and expanding patient satisfaction.

Overall, comes about and discoveries the review highlights the multifaceted suggestions of coordination emergency restorative administrations. Through quantitative investigation, subjective interviews, and blended strategies, this study gives knowledge into the positive impacts of collaborative working in nursing and professionals, counting diminishing patient hold-up times, increasing staff fulfilment, and progressing patient results. These discoveries Chelonian Conservation and

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highlight the significance of continuous inquiry and assessment to illuminate evidence-based hone and promote patient change in emergency therapeutic administrations (Maine et. al 2020).

Discussion

Collaboration between nurses and professionals in emergencymedical room may be a promising way to extend emergency care's viability, productivity, and viability. Findings from the study demonstrate that shared obligations have the potential to provide noteworthy benefits to patients and suppliers by killing conventional silos and empowering collaborative work. Be that as it may, accomplishing coordination measures isn't without challenges. This session investigates the effects of the coordination part of emergency healthcare, highlighting its benefits, challenges, and methodologies to address them.

Potential Benefits of Role Integration

- ✓ **Resource Allocation:** Healthcare organizations can optimize asset assignment amid crises by joining the duties of medical caretakers and staff. Coordination makes a difference and guarantees that specialists and supplies are viably designated according to patients' needs by partitioning work efficiently and utilizing employees' skills (Alowad et. al 2021).
- ✓ Patient Flow The collaborative part can make strides in patient stream within the ED by streamlining forms and diminishing bottlenecks. The coordination part of empowering collaboration and communication between healthcare suppliers makes a difference in moving the quality of care forward, decreasing delays, and ensuring timely conveyance of care.
- ✓ Quality of Care: Collaboration between medical caretakers and specialists can improve the overall quality of care for patients within the emergency office. Integration underpins different approaches to patient care, allowing physicians to utilize their abilities to understand care better.
- ✓ **Staff Satisfaction** Integration of parts has been found to extend representative fulfilment within the emergency office. The agreeable can improve the working environment by empowering participation and collaboration between bosses and experts, subsequently expanding work fulfilment and doctor morale (Gerchow et. al 2021).

Challenges of Role Integration:

- ✓ Healthcare organizations may encounter resistance due to changes in staff commitment to parts and work forms. Resistance to change may manifest as hesitance to receive unused jobs, questions about the benefits of integration, or fear of changing careers.
- ✓ Part disarray happens when obligations and desires concerning shared responsibilities are not characterized. Doctors may have trouble adapting to modern parts and duties, leading to struggle, push, and mistakes in patient care.
- ✓ Social obstructions, such as proficient chains of command and communication obstructions for nursing and specialized staff, can influence the viability of program

integration. Overcoming societies requires working together to create a robust environment that empowers collaboration and innovation (James et. al 2021).



Figure: Challenges in Nursing Informatics

(Chauhan et. al 2024).

Strategies for Overcoming Barriers to Implementation:

- ✓ Healthcare organizations should contribute to instruction and preparation to prepare their representatives for their collaborative work. Preparing should center on clarifying part desires, moving forward communication and collaboration, and giving career advancement opportunities (Darda & Matta 2024).
- ✓ Healthcare pioneers are vital in challenging organizational duties and providing the bolster and assets fundamental to their victory. Authority bolster makes a difference, overcomes resistance to change, and cultivates a culture of collaboration and advancement within the ED.
- ✓ Open communication is essential to settling part-disarray and culture-related organizational boundaries. Healthcare organizations should establish an open communication and criticism system to guarantee representatives feel engaged in voicing their concerns and recommendations.
- ✓ Standard assessment and input are essential to screen the execution of the joint wander and distinguish ranges for change. Healthcare organizations must create strategies to gather and analyze information on key execution pointers, such as patient results, worker fulfilment, and asset utilization (Al Kuwaiti et. al 2023).

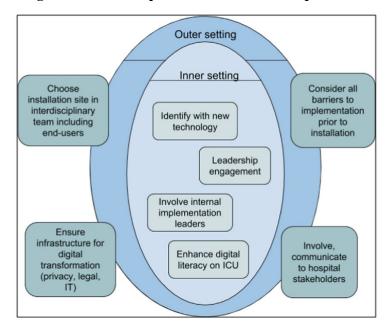


Figure: Strategies to overcome perceived barriers to implementation of a remote

(Sharma et. al 2022).

The integration of medical caretakers and experts ought to progress the conveyance of emergency care, make strides toward patient care, and improve the overall quality of care by advancing assets. In any case, the victory of the integration handle requires tackling issues such as resistance to alter, part disarray, and social issues (Hughes et. al 2020). Wellbeing monitoring organizations can overcome these obstructions and realize the complete potential of integration into emergencymedical room byutilizing procedures such as instruction and preparation, administration bolster, open communication, and regular assessment and input.

Conclusion

In conclusion, integrating nursing and emergency administrations offers an extraordinary opportunity to progress patient care and increase asset utilization. Collaboration between doctors and nursing staff can increase proficiency within the emergency room, progress patient results, and create more collaborative situations. Even though existing evidence recommends that positive results are related to social duty, encouraging investigation is required to examine its long-term effects and potential supportability in several settings.

The technique ought to prioritize the engagement of stakeholders, counting cutting-edge laborers, authorities, and policymakers, to pick up information together and facilitate the move to shared obligations. In addition, training programs should be outlined to supply doctors with the information and abilities they need to be effective in their unused positions. Patient assessment and input are vital to screen integration testing results and recognize improvement areas (Sendak

et. al 2020). Integration of patient care and proficient endeavors into emergencymedical room depends on collaboration and development for patient care, illness, and subsequent change. By utilizing corporate obligation as a device for change, healthcare organizations can work to meet the changing needs of patients and move forward with emergency division services.

Recommendations

- ✓ Conduct longitudinal studying to assess the long-term impacts of the combination of patient results, representative fulfilment, and healthcare quality.
- ✓ Investigate other ways to collaborate, like innovation and collaborative learning.
- ✓ Create benchmarks to determine the viability of general administrations for comparison between distinctive healing centers.
- ✓ Create a culture of collaboration and ceaseless advancement within the ED and energize staff back and interest in cooperation.
- ✓ Advocate for approach alteration and regulation to advance collaboration in intense care settings (Natesan et. al 2020).

By executing these proposals, healthcare organizations can increase the adequacy of coordination and make strides in conveying emergency medical room for worldwide patients. In summary, this critical study gives insight into integrating doctors and medical caretakers into emergencymedical room and provides data on their productivity, adequacy, and capacity to progress patient results. Even though it is complex and troublesome, this combination speaks to a promising way to overhaul the pharmaceutical emergency and meet the therapeutic changes of the 21st century (Hayden et. al 2021).

Reference

- Jansson, J., Larsson, M., & Nilsson, J. (2021). Advanced paramedics and nurses can deliver safe and effective pre-hospital and in-hospital emergency care: An integrative review. *Nursing Open*, 8(5), 2385-2405. https://onlinelibrary.wiley.com/doi/abs/10.1002/nop2.866
- Khiswi, A. A. M., Absalom, M. H. B. M., Alyami, A. M. B. H., & Alyami, A. M. B. S. (2023). CRITICAL REVIEW OF THE ROLE OF TELEMEDICINE IN EMERGENCY CARE. *Chelonian Research Foundation*, *18*(1), 492-506.http://www.acgpublishing.com/index.php/CCB/article/view/267
- Van Vuuren, J., Thomas, B., Agarwal, G., McDermott, S., Kinsman, L., O'Meara, P., & Spelten, E. (2021). Reshaping healthcare delivery for elderly patients: the role of community par medicine; a systematic review. *BMC Health Services Research*, 21, 1-15.
 https://link.springer.com/article/10.1186/s12913-020-06037-0
- Austin, E. E., Blakely, B., Tufanaru, C., Selwood, A., Braithwaite, J., & Clay-Williams, R. (2020). Strategies to measure and improve emergency department performance: a

- scoping review. *Scandinavian journal of trauma, resuscitation and emergency medicine*, 28, 1-14.https://link.springer.com/article/10.1186/s13049-020-00749-2
- Nunes, A. M., & Ferreira, D. C. (2022). A Critical Analysis of Decentralizing the Portuguese Public Healthcare Provision Services. *International Journal of Environmental Research and Public Health*, 19(20), 13390.https://www.mdpi.com/1660-4601/19/20/13390
- O'Connor, S., Yan, Y., Thilo, F. J., Felzmann, H., Dowding, D., & Lee, J. J. (2023). Artificial intelligence in nursing and midwifery: A systematic review. *Journal of Clinical Nursing*, *32*(13-14), 2951-2968.https://onlinelibrary.wiley.com/doi/abs/10.1111/jocn.16478
- Chike-Harris, K. E., Durham, C., Logan, A., Smith, G., & DuBose-Morris, R. (2021). Integration of telehealth education into the health care provider curriculum: a review. *Telemedicine* and e-Health, 27(2), 137-149.https://www.liebertpub.com/doi/abs/10.1089/tmj.2019.0261
- Qiao, J., Xu, J., Li, L., & Ouyang, Y. Q. (2021). The integration of immersive virtual reality simulation in interprofessional education: A scoping review. *Nurse Education Today*, 98, 104773.https://www.sciencedirect.com/science/article/pii/S0260691721000307
- Karam, M., Chouinard, M. C., Poitras, M. E., Couturier, Y., Vedel, I., Grgurevic, N., & Hudon, C. (2021). Nursing care coordination for patients with complex needs in primary healthcare: a scoping review. *International Journal of Integrated Care*, 21(1).https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7977020/
- Ng, Z. Q. P., Ling, L. Y. J., Chew, H. S. J., & Lau, Y. (2022). The role of artificial intelligence in enhancing clinical nursing care: A scoping review. *Journal of Nursing Management*, *30*(8), 3654-3674.https://onlinelibrary.wiley.com/doi/abs/10.1111/jonm.13425
- Tariq, M. U. (2024). Advanced Wearable Medical Devices and their Role in Transformative Remote Health Monitoring. In *Transformative Approaches to Patient Literacy and Healthcare Innovation* (pp. 308-326). IGI Global.https://www.igi-global.com/chapter/advanced-wearable-medical-devices-and-their-role-in-transformative-remote-health-monitoring/342833
- Deussom, R., Mwarey, D., Bayu, M., Abdullah, S. S., & Marcus, R. (2022). Systematic review of performance-enhancing health worker supervision approaches in low-and middle-income countries. *Human resources for health*, 20(1), 2.https://link.springer.com/article/10.1186/s12960-021-00692-y
- Isidori, V., Diamanti, F., Gios, L., Malfatti, G., Perini, F., Nicolini, A.,& Gaudino, A. (2022). Digital technologies and the role of health care professionals: scoping review exploring

- nurses' skills in the digital era and in the light of the COVID-19 pandemic. *JMIR nursing*, 5(1), e37631. https://nursing.jmir.org/2022/1/e37631
- Glanville, D., Hutchinson, A., &Chaw, D. (2023). Handheld computer devices to support clinical decision-making in acute nursing practice: systematic scoping review. *Journal of Medical Internet Research*, 25, e39987.https://www.jmir.org/2023/1/e39987/
- Ibn-Mohammed, T., Mustapha, K. B., Godsell, J., Adamu, Z., Babatunde, K. A., Akintade, D. D., ... & Koh, S. C. L. (2021). A critical analysis of the impacts of COVID-19 on the global economy and ecosystems and opportunities for circular economy strategies. *Resources, Conservation and Recycling*, *164*, 105169.https://www.sciencedirect.com/science/article/pii/S0921344920304869
- Ashcraft, S., Wilson, S. E., Nyström, K. V., Dusenbury, W., Wira, C. R., Burrus, T. M., & American Heart Association Council on Cardiovascular and Stroke Nursing and the Stroke Council. (2021). Care of the patient with acute ischemic stroke (prehospital and acute phase of care): update to the 2009 comprehensive nursing care scientific statement: a scientific statement from the American Heart Association. *Stroke*, *52*(5), e164-e178.https://www.ahajournals.org/doi/abs/10.1161/STR.00000000000000356
- Tan, A. J., Rusli, K. D., McKenna, L., Tan, L. L., & Liaw, S. Y. (2024). Telemedicine experiences and perspectives of healthcare providers in long-term care: A scoping review. *Journal of telemedicine and telecare*, 30(2), 230-249. https://journals.sagepub.com/doi/abs/10.1177/1357633X211049206
- Brosinski, C., & Riddell, A. (2020). Incorporating hourly rounding to increase emergency department patient satisfaction: A quality improvement approach. *Journal of Emergency Nursing*, 46(4), 511-517.https://www.sciencedirect.com/science/article/pii/S0099176719304519
- Mainey, L., O'Mullan, C., Reid-Searl, K., Taylor, A., & Baird, K. (2020). The role of nurses and midwives in the provision of abortion care: a scoping review. *Journal of clinical nursing*, *29*(9-10), 1513-1526.https://onlinelibrary.wiley.com/doi/abs/10.1111/jocn.15218
- Alowad, A., Samaranayake, P., Ahsan, K., Alidrisi, H., & Karim, A. (2021). Enhancing patient flow in emergency department (ED) using lean strategies—an integrated voice of customer and voice of process perspective. *Business Process Management Journal*, 27(1), 75-105. https://www.emerald.com/insight/content/doi/10.1108/BPMJ-11-2019-0457/full/html
- Gerchow, L., Burka, L. R., Miner, S., & Squires, A. (2021). Language barriers between nurses and patients: A scoping review. *Patient education and counseling*, *104*(3), 534-553.https://www.sciencedirect.com/science/article/pii/S0738399120305152
- James, T. G., Varnes, J. R., Sullivan, M. K., Cheong, J., Pearson, T. A., Yurasek, A. M.,& McKee, M. M. (2021). Conceptual model of emergency department utilization among

- deaf and hard-of-hearing patients: a critical review. *International Journal of Environmental Research and Public Health*, 18(24), 12901. https://www.mdpi.com/1660-4601/18/24/12901
- Chauhan, P., Bali, A., & Kaur, S. (2024). Breaking Barriers for Accessible Health Programs: The Role of Telemedicine in a Global Healthcare Transformation. In *Transformative Approaches to Patient Literacy and Healthcare Innovation* (pp. 283-307). IGI Global.https://www.igi-global.com/chapter/breaking-barriers-for-accessible-health-programs/342832
- Darda, P., & Matta, N. (2024). The Nexus of Healthcare and Technology: A Thematic Analysis of Digital Transformation through Artificial Intelligence. In *Transformative Approaches to Patient Literacy and Healthcare Innovation* (pp. 261-282). IGI Global.https://www.igi-global.com/chapter/the-nexus-of-healthcare-and-technology/342831
- Al Kuwaiti, A., Nazer, K., Al-Reedy, A., Al-Shehri, S., Al-Muhanna, A., Subbarayalu, A. V.,& Al-Muhanna, F. A. (2023). A review of the role of artificial intelligence in healthcare. *Journal of personalized medicine*, *13*(6), 951. https://www.mdpi.com/2075-4426/13/6/951
- Hughes, G., Shaw, S. E., & Greenhalgh, T. (2020). Rethinking integrated care: a systematic hermeneutic review of the literature on integrated care strategies and concepts. *The Milbank Quarterly*, 98(2), 446-492. https://onlinelibrary.wiley.com/doi/abs/10.1111/1468-0009.12459
- Sharma, G. D., Kraus, S., Srivastava, M., Chopra, R., & Kallmuenzer, A. (2022). The changing role of innovation for crisis management in times of COVID-19: An integrative literature review. *Journal of Innovation & Knowledge*, 7(4), 100281.https://www.sciencedirect.com/science/article/pii/S2444569X22001160
- Sendak, M. P., Ratliff, W., Sarro, D., Alderton, E., Futoma, J., GAO, M.,& O'Brien, C. (2020). Real-world integration of a sepsis deep learning technology into routine clinical care: implementation study. *JMIR medical informatics*, 8(7), e15182.https://medinform.jmir.org/2020/7/e15182/
- Natesan, S., Bailitz, J., King, A., Krzyzaniak, S. M., Kennedy, S. K., Kim, A. J.,& Gottlieb, M. (2020). Clinical teaching: an evidence-based guide to best practices from the Council of Emergency Medicine Residency Directors. *Western Journal of Emergency Medicine*, 21(4), 985.https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7390547/
- Hayden, E. M., Davis, C., Clark, S., Joshi, A. U., Krupinski, E. A., Naik, N.,& Society for Academic Emergency Medicine 2020 Consensus Conference. (2021). Telehealth in emergency medicine: A consensus conference to map the intersection of telehealth and

emergency medicine. *Academic Emergency Medicine*, *28*(12), 1452-1474.https://onlinelibrary.wiley.com/doi/abs/10.1111/acem.14330