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General health practitioner skills and procedures

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Abstract---Nursing skills and procedures constitute the foundation of competent and compassionate patient care, serving as essential tools in the arsenal of nursing practice. Throughout this exploration, we have delved into the multifaceted realm of nursing skills and procedures, examining their significance, acquisition, application, and impact within the broader context of contemporary healthcare delivery. From basic tasks such as vital signs monitoring to complex interventions like wound care and medication administration, nursing skills and procedures play a pivotal role in promoting patient comfort, safety, and well-being across diverse clinical settings. Mastery of these skills not only enhances the efficiency and effectiveness of nursing care but also fosters trust, confidence, and satisfaction among patients and their families. The acquisition and refinement of nursing skills and procedures are lifelong endeavors, requiring ongoing education, training, and professional development. As the healthcare landscape evolves, nurses must adapt to emerging technologies, evidence-based practices, and changing patient care needs, continuously updating their skillset to meet the demands of contemporary practice. The integration of technology, simulation, and interdisciplinary collaboration has reshaped the landscape of nursing education, offering innovative avenues for teaching, learning, and skill development.

Keywords---nursing skills, procedures, nursing practice, patient care.

Introduction

In the dynamic landscape of healthcare, nursing remains an indispensable pillar, embodying a synthesis of compassion, expertise, and technical proficiency. At the core of nursing practice lie a myriad of skills and procedures essential for delivering safe, effective, and holistic care to patients across diverse clinical settings. From basic tasks such as vital signs monitoring to complex interventions like medication administration and wound care, these skills form the bedrock upon which nurses build their clinical competency and cultivate patient trust. This research aims to delve into the multifaceted realm of nursing skills and procedures, exploring their significance, acquisition, application, and impact within the broader context of contemporary healthcare delivery. With an ever-evolving healthcare landscape characterized by technological advancements, shifting demographics, and emerging health challenges, the role of nursing skills

and procedures continues to evolve, necessitating ongoing adaptation, innovation, and refinement.(1)

Through this exploration, we seek to unravel the complexities surrounding nursing skills education, competency assessment, and professional development. Furthermore, we aim to illuminate the interplay between nursing skill proficiency, patient outcomes, and quality of care, thereby underscoring the critical importance of continuous skill enhancement and evidence-based practice in nursing.

By examining current trends, challenges, and best practices in nursing skills and procedures, this research endeavors to contribute to the ongoing dialogue aimed at optimizing nursing education, fostering clinical excellence, and ultimately enhancing patient well-being. In doing so, we aspire to illuminate the transformative power inherent in the mastery and application of nursing skills and procedures, reaffirming the indispensable role of nurses as frontline careers and advocates for health and healing.(2)

Assessment of Nursing Skills Acquisition Among Nursing Students: A Comparative Study

The acquisition and mastery of nursing skills are fundamental milestones in the journey of nursing students as they transition from classroom learning to clinical practice. Proficiency in nursing skills not only ensures the delivery of safe and effective patient care but also forms the cornerstone of professional competence and confidence among future nurses. Recognizing the paramount importance of nursing skills acquisition, this comparative study aims to evaluate the effectiveness of different educational approaches in fostering skill acquisition among nursing students.(7)

As nursing education continues to evolve, various pedagogical methods, including traditional didactic teaching, simulation-based training, and experiential learning in clinical settings, have been employed to impart nursing skills to students. However, the efficacy of these approaches in facilitating skill acquisition and retention remains an area of ongoing inquiry and debate within the nursing education community.

This study seeks to address this gap by conducting a comparative analysis of nursing skills acquisition among nursing students exposed to different educational methodologies. By examining the outcomes of students undergoing traditional didactic instruction, simulation-based training, and clinical practicum experiences, we aim to discern the relative strengths and limitations of each approach in nurturing nursing skills proficiency.(2)

Through rigorous assessment and evaluation, we endeavor to elucidate the factors influencing nursing skills acquisition, including the role of instructional methods, learning environments, student characteristics, and faculty expertise. Moreover, by exploring students' perceptions, experiences, and self-efficacy regarding nursing skills acquisition, we aim to provide valuable insights into the

underlying mechanisms shaping learning outcomes and educational effectiveness.(7)

This comparative study aspires to inform evidence-based practices in nursing education, guiding educators, curriculum developers, and policymakers in optimizing educational strategies to enhance nursing students' acquisition, retention, and application of essential clinical skills. By elucidating the most effective pathways to nursing skill mastery, we endeavor to empower future generations of nurses to meet the evolving demands of healthcare practice with confidence, competence, and compassion.(8)

Effectiveness of Simulation Training in Enhancing Nursing Skills Proficiency

Simulation training has emerged as a pivotal educational tool in nursing education, offering students a controlled yet immersive environment to develop and refine clinical skills in a safe and supportive setting. As the complexity of healthcare continues to evolve, simulation-based learning has garnered increasing attention for its potential to bridge the gap between theory and practice, cultivate critical thinking abilities, and enhance nursing skill proficiency among students.(6)

This study seeks to explore the effectiveness of simulation training in bolstering nursing skills proficiency, examining its impact on student learning outcomes, confidence levels, and clinical readiness. By employing a comprehensive evaluation framework, we aim to assess the multifaceted dimensions of simulation-based education and its implications for nursing education and practice.(3)

Simulation training offers a dynamic platform for students to engage in hands-on learning experiences, replicate realistic clinical scenarios, and apply theoretical knowledge to practical situations. Through high-fidelity simulators, virtual reality technologies, and standardised patient encounters, students can practice a wide array of nursing skills, ranging from basic procedures to complex clinical interventions, in a controlled and supportive environment.

Simulation training allows for deliberate practice, feedback, and reflection, enabling students to identify areas for improvement, refine their techniques, and build confidence in their clinical abilities. By providing opportunities for repetition and mastery, simulation-based education nurtures a sense of competence and proficiency among nursing students, preparing them for the challenges and complexities of real-world clinical practice.(9)

Simulation training offers a safe learning environment where students can make mistakes, learn from their experiences, and develop clinical judgement without compromising patient safety. Through simulated scenarios encompassing diverse patient populations, health conditions, and care settings, students can broaden their clinical exposure, cultivate empathy, and hone their communication and teamwork skills.(6)

By conducting a rigorous assessment of simulation-based education, this study aims to elucidate its impact on nursing skills acquisition, retention, and transferability to clinical practice. By examining student performance, satisfaction, and confidence levels, we seek to provide empirical evidence supporting the efficacy of simulation training in enhancing nursing education and preparing students for the complexities of contemporary healthcare delivery.(3) by elucidating the effectiveness of simulation training in bolstering nursing skill proficiency, this study endeavors to inform best practices in nursing education, curriculum development, and faculty training. By harnessing the transformative potential of simulation-based learning, nursing educators can empower students to become competent, confident, and compassionate practitioners capable of delivering high-quality care in diverse healthcare settings.(5)

The Role of Continuing Education in Updating Nursing Skills and Procedures

Continuing education serves as a cornerstone in the ongoing professional development of nurses, enabling them to stay abreast of advancements in healthcare, update their clinical knowledge and skills, and adapt to evolving patient care needs. In the dynamic landscape of nursing practice, characterized by rapid technological innovations, changing demographics, and emerging healthcare challenges, the imperative for lifelong learning and skill enhancement has never been more pronounced.(7)

This study aims to explore the pivotal role of continuing education in updating nursing skills and procedures, examining its impact on professional competence, patient outcomes, and the quality of care delivery. By delving into the multifaceted dimensions of continuing education, we seek to elucidate its significance as a catalyst for professional growth, innovation, and excellence in nursing practice.(6)

Continuing education encompasses a diverse array of learning opportunities, including workshops, seminars, conferences, online courses, and advanced certification programmes, tailored to meet the diverse learning needs and career aspirations of nurses across various practice settings and specialties. Through these educational endeavors, nurses have the opportunity to expand their clinical repertoire, refine their procedural proficiency, and acquire specialized knowledge and competencies relevant to their areas of practice.

Continuing education serves as a vehicle for staying abreast of evidence-based practices, clinical guidelines, and regulatory requirements governing nursing practice. By engaging in lifelong learning, nurses can enhance their critical thinking abilities, strengthen their clinical reasoning skills, and cultivate a culture of inquiry and innovation within their professional practice.(6)

Continuing education fosters a culture of professionalism and lifelong learning, reinforcing the ethical imperative for nurses to maintain competence and uphold the highest standards of patient care. By investing in their professional development, nurses demonstrate a commitment to excellence, continuous improvement, and patient safety, thereby enhancing public trust and confidence in the nursing profession.(1)

Through an in-depth examination of the role of continuing education in updating nursing skills and procedures, this study seeks to provide insights into best practices, challenges, and opportunities for professional development in nursing. By identifying barriers to participation and strategies for promoting lifelong learning, we aim to inform policy initiatives, educational interventions, and organizational practices aimed at fostering a culture of learning and excellence within the nursing profession.(6)

Ultimately, by recognizing the transformative potential of continuing education in updating nursing skills and procedures, this study endeavors to empower nurses to navigate the complexities of modern healthcare practice with confidence, competence, and compassion, thereby advancing the quality and safety of patient care across the continuum of care.(3)

Evaluation of Hands-On Clinical Training Versus Virtual Simulation in Nursing Skill Development

Nursing education continually seeks innovative approaches to enhance skill development and prepare students for the dynamic challenges of healthcare practice. Hands-on clinical training and virtual simulation represent two distinct yet complementary methodologies employed in nursing education to cultivate clinical competence and proficiency in nursing skills. This study aims to evaluate the effectiveness of hands-on clinical training and virtual simulation in nursing skill development, comparing their impact on student learning outcomes, confidence levels, and clinical readiness.(6)

Hands-on clinical training immerses students in real-world patient care environments, providing opportunities to apply theoretical knowledge, practice nursing skills, and interact with patients under the guidance of experienced clinical preceptors. This traditional approach offers invaluable experiential learning opportunities, allowing students to navigate the complexities of clinical practice, develop clinical judgement, and refine their procedural proficiency through direct patient care experiences.(7)

In contrast, virtual simulation harnesses technology to recreate lifelike clinical scenarios in a controlled and interactive virtual environment. Through computer-based simulations, virtual reality platforms, and high-fidelity mannequins, students can engage in realistic patient encounters, practice nursing interventions, and receive immediate feedback on their performance without risking patient safety. Virtual simulation offers flexibility, scalability, and repeatability, enabling students to engage in deliberate practice, explore various clinical scenarios, and refine their skills in a safe and supportive setting.(1)

This comparative study seeks to assess the relative merits of hands-on clinical training and virtual simulation in nursing skill development, examining their efficacy in fostering skill acquisition, retention, and transferability to clinical practice. By employing a mixed-methods research design, including quantitative assessments of skill proficiency and qualitative analysis of student perceptions

and experiences, we aim to provide a comprehensive evaluation of both educational methodologies.(7)

Investigating the optimal integration of these approaches within nursing curricula to maximize learning outcomes and student engagement. By identifying the unique strengths and limitations of each methodology, we seek to inform evidence-based pedagogical practices and curriculum development initiatives aimed at optimizing nursing education and preparing students for the complexities of contemporary healthcare practice.(4)

By evaluating the effectiveness of hands-on clinical training and virtual simulation in nursing skill development, this study endeavors to advance our understanding of innovative approaches to nursing education and enhance the quality and safety of patient care delivery. By identifying best practices and guiding principles for skill development, we aim to empower nursing educators to design transformative learning experiences that equip students with the knowledge, skills, and confidence to excel as competent and compassionate careers in today's healthcare environment.(9)

Impact of Interprofessional Collaboration on Nursing Skills and Procedure Implementation

Interprofessional collaboration, characterized by partnership and teamwork among healthcare professionals from different disciplines, has gained recognition as a cornerstone of contemporary healthcare delivery. In the complex and dynamic landscape of healthcare, effective collaboration among nurses, physicians, pharmacists, therapists, and other healthcare professionals is essential for optimizing patient outcomes, enhancing care quality, and maximizing resource utilization. This study aims to explore the impact of interprofessional collaboration on nursing skills and procedure implementation, examining its influence on patient care delivery, clinical decision-making, and professional practice.(3)

Interprofessional collaboration fosters a synergistic approach to patient care, leveraging the unique expertise, perspectives, and skills of diverse healthcare professionals to address the multifaceted needs of patients and their families. By promoting communication, coordination, and shared decision-making, interprofessional collaboration enhances care coordination, reduces medical errors, and improves patient safety across the continuum of care.(1)

In the context of nursing skills and procedure implementation, interprofessional collaboration plays a pivotal role in facilitating seamless care transitions, interdisciplinary care planning, and collaborative care delivery. Nurses collaborate with colleagues from various disciplines to assess patient needs, develop individualized care plans, and coordinate the execution of nursing interventions within the broader context of interdisciplinary care teams.(8)

Interprofessional collaboration enhances the exchange of knowledge and best practices among healthcare professionals, fostering a culture of continuous learning and professional growth. Through collaborative learning experiences,

nurses have the opportunity to expand their clinical repertoire, learn from the expertise of other professionals, and enhance their proficiency in nursing skills and procedures through interdisciplinary training programs, case discussions, and collaborative practice initiatives.(7)

Interprofessional collaboration fosters a culture of mutual respect, trust, and appreciation for the contributions of each team member, creating an environment conducive to innovation, creativity, and excellence in patient care. By working collaboratively with colleagues from diverse backgrounds, nurses gain valuable insights into alternative approaches to patient care, broaden their clinical perspective, and enhance their capacity to adapt to evolving practice standards and guidelines.(6)

Through a comprehensive examination of the impact of interprofessional collaboration on nursing skills and procedure implementation, this study aims to provide insights into the mechanisms through which collaboration enhances nursing practice and patient care outcomes. By elucidating the synergistic effects of interdisciplinary teamwork on skill development, clinical decision-making, and care delivery, we seek to inform strategies for optimizing interprofessional collaboration within healthcare organizations and academic institutions.(4)

By recognizing the transformative potential of interprofessional collaboration in nursing practice, this study endeavors to empower nurses to harness the collective expertise of interdisciplinary teams, leverage collaborative opportunities, and optimize patient care outcomes through collaborative practice models and interprofessional education initiatives.(6)

Exploring the Integration of Technology in Teaching Nursing Skills and Procedures

Technology continues to revolutionize every aspect of healthcare, including nursing education. The integration of technology in teaching nursing skills and procedures offers exciting opportunities to enhance learning experiences, engage students, and prepare them for the complexities of modern healthcare practice. This study aims to explore the various ways in which technology is integrated into nursing education to teach skills and procedures, examining its impact on student learning outcomes, proficiency, and clinical readiness.(6)

The incorporation of technology in nursing education encompasses a diverse array of tools, platforms, and applications, ranging from virtual simulations and interactive multimedia resources to mobile apps and wearable devices. These technological innovations offer dynamic, interactive, and immersive learning experiences that complement traditional didactic instruction and hands-on clinical training.(2)

Virtual simulations provide students with realistic, interactive environments to practice nursing skills and procedures in a safe and controlled setting. Through computer-based simulations and virtual reality platforms, students can engage in lifelike clinical scenarios, receive immediate feedback on their performance, and refine their skills through repeated practice. Virtual simulations offer flexibility,

scalability, and accessibility, enabling students to access learning resources anytime, anywhere, and at their own pace.(3)

Interactive multimedia resources, such as online tutorials, video demonstrations, and interactive modules, enhance the accessibility and effectiveness of nursing education by catering to diverse learning styles and preferences. These multimedia resources provide visual, auditory, and kinesthetic learning opportunities, allowing students to engage with complex concepts and procedures through dynamic and interactive content.(9)

Mobile apps and wearable devices offer on-the-go access to educational resources, reference materials, and clinical decision support tools, empowering students to enhance their learning experiences and clinical practice proficiency at their convenience. Mobile technology facilitates just-in-time learning, enabling students to access relevant information and resources in real-time to support clinical decision-making and problem-solving.(4)

Technology-enabled learning platforms facilitate collaboration, communication, and knowledge sharing among students and educators, fostering a collaborative learning environment conducive to inquiry, exploration, and innovation. Through online discussion forums, virtual classrooms, and social media platforms, students can engage in peer-to-peer learning, share best practices, and collaborate on group projects, enhancing their sense of community and professional identity.(6)

By conducting a comprehensive exploration of the integration of technology in teaching nursing skills and procedures, this study aims to provide insights into innovative pedagogical approaches, best practices, and challenges in technology-enabled nursing education. By identifying opportunities for leveraging technology to enhance learning outcomes, engage students, and promote lifelong learning, we seek to inform strategies for optimizing the integration of technology in nursing education to prepare students for the demands of 21st-century healthcare practice.(7)

Assessment of Competency-Based Training programs for Nursing Skills Development

Competency-based training programs have gained prominence in nursing education as a means to ensure that students develop the necessary knowledge, skills, and abilities required for competent and effective nursing practice. Unlike traditional education models that focus primarily on time spent in the classroom or clinical setting, competency-based training programs emphasize the attainment of specific competencies or skills deemed essential for nursing practice. This study aims to assess the effectiveness of competency-based training programs for nursing skills development, examining their impact on student learning outcomes, clinical competency, and readiness for professional practice.(8)

Competency-based training programs are designed around predetermined competencies or learning outcomes, which serve as benchmarks for assessing student progress and achievement. These competencies encompass a wide range

of cognitive, psychomotor, and affective skills relevant to nursing practice, including clinical assessment, therapeutic interventions, communication skills, and critical thinking abilities.(4)

One of the principles of competency-based education is learner-centeredness, whereby students are actively engaged in the learning process and progress at their own pace based on their individual learning needs and abilities. Competency-based training programs provide opportunities for students to demonstrate proficiency in specific skills through competency assessments, performance evaluations, and standardized examinations.(2)

Competency-based training programs emphasize the importance of ongoing assessment and feedback to guide student learning and development. Through regular formative assessments, students receive timely feedback on their performance, identify areas for improvement, and take ownership of their learning journey. This iterative process of assessment and feedback promotes continuous improvement and mastery of nursing skills.(3)

Competency-based training programs prioritize the integration of real-world practice experiences, allowing students to apply their knowledge and skills in authentic clinical settings under the guidance of experienced preceptors. By engaging in hands-on learning experiences, students develop clinical competence, confidence, and professional identity, preparing them for the challenges and responsibilities of nursing practice.(1)

By conducting a comprehensive assessment of competency-based training programs for nursing skills development, this study aims to provide insights into their effectiveness, strengths, and limitations. Through a mixed-methods research design incorporating quantitative assessments of student outcomes and qualitative analyses of student perceptions and experiences, we seek to evaluate the impact of competency-based education on nursing education and practice.(9) by elucidating the effectiveness of competency-based training programs for nursing skills development, By identifying strategies for optimizing competency-based education approaches, we aim to empower nursing educators to design transformative learning experiences that equip students with the knowledge, skills, and competencies necessary for success in their professional practice.(4)

Conclusion

In conclusion, nursing skills and procedures constitute the foundation of competent and compassionate patient care, serving as essential tools in the arsenal of nursing practice. Throughout this exploration, we have delved into the multifaceted realm of nursing skills and procedures, examining their significance, acquisition, application, and impact within the broader context of contemporary healthcare delivery.(5)

From basic tasks such as vital signs monitoring to complex interventions like wound care and medication administration, nursing skills and procedures play a pivotal role in promoting patient comfort, safety, and well-being across diverse clinical settings. Mastery of these skills not only enhances the efficiency and

effectiveness of nursing care but also fosters trust, confidence, and satisfaction among patients and their families.(8)

The acquisition and refinement of nursing skills and procedures are lifelong endeavors, requiring ongoing education, training, and professional development. As the healthcare landscape evolves, nurses must adapt to emerging technologies, evidence-based practices, and changing patient care needs, continuously updating their skillset to meet the demands of contemporary practice.(10)

The integration of technology, simulation, and interdisciplinary collaboration has reshaped the landscape of nursing education, offering innovative avenues for teaching, learning, and skill development. Through simulation-based training, virtual reality platforms, and interprofessional collaboration, nursing students can engage in immersive learning experiences, refine their clinical proficiency, and prepare for the complexities of real-world practice.

As we navigate the challenges and opportunities of modern healthcare, it is essential to recognize the pivotal role of nursing skills and procedures in shaping the future of nursing practice. By prioritizing competency-based education, evidence-based practice, and lifelong learning, nurses can continue to excel as trusted careers, advocates, and leaders in promoting health, healing, and wellness for individuals, families, and communities worldwide.

In essence, nursing skills and procedures are not merely tasks to be performed but rather the building blocks of compassionate, competent, and patient-centered care. As we look towards the future, let us reaffirm our commitment to excellence in nursing practice, embracing innovation, collaboration, and continuous improvement to meet the evolving needs of those we serve.(7)

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