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THE NURSING PROFESSION: A SCIENTIFIC AND HUMANISTIC PILLAR OF MODERN HEALTHCARE

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Abstract

The nursing profession plays a critical role in healthcare systems globally, blending scientific knowledge with compassionate care. This article explores the multidimensional nature of nursing, including its historical development, educational frameworks, clinical responsibilities, and evolving role in interdisciplinary healthcare. Special emphasis is placed on the scientific foundations of nursing practice, current challenges, and the future directions shaped by technology, policy, and global health trends.

Key words: nursing profession, medical field, biological sciences, behavioral sciences, social sciences

1. Introduction

Nursing is both an art and a science—grounded in evidence-based practice, ethics, and empathy. As one of the largest health professions, nurses are integral to delivering primary, acute, and palliative care. Their role extends beyond bedside care to include education, advocacy, research, and leadership. This article provides a scientific analysis of the nursing profession's structure, impact, and ongoing transformation.

2. Historical and Theoretical Foundations

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The formalization of nursing began in the 19th century, led by pioneers such as Florence Nightingale, who emphasized hygiene, patient observation, and data collection—principles still relevant today. Modern nursing theories, such as those developed by Jean Watson, Dorothea Orem, and Hildegard Peplau, provide frameworks that guide practice, education, and research, emphasizing both physical and psychosocial dimensions of care.

3. Education and Professional Competency

Nursing education is rooted in biological, behavioral, and social sciences. Core competencies include pathophysiology, pharmacology, patient assessment, and clinical decision-making. The standard entry point for practice is the registered nurse (RN) license, typically obtained through an Associate Degree in Nursing (ADN) or a Bachelor of Science in Nursing (BSN). Advanced practice roles, including Nurse Practitioners (NPs) and Clinical Nurse Specialists (CNSs), require graduate-level training and certifications.

Simulation technology, interprofessional education, and clinical rotations ensure skill development in both acute and community settings. Continuing education is essential for maintaining licensure and ensuring evidence-based practice.

4. Scientific Basis of Nursing Practice

Modern nursing practice is grounded in empirical evidence. Evidence-Based Practice (EBP) combines clinical expertise, patient preferences, and the best available scientific research to inform decision-making. Nurses contribute to clinical research, quality improvement projects, and the development of care protocols.

Nursing science incorporates disciplines such as epidemiology, psychology, and informatics. For example, nursing informatics supports data-driven care planning, while research in wound healing or chronic disease management enhances clinical outcomes.

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5. Roles and Scope of Practice

Nurses operate in diverse settings: hospitals, primary care clinics, public health departments, schools, and long-term care facilities. Their roles range from direct patient care to case management, health education, and policy development.

In critical care, nurses perform complex interventions and monitor vital parameters. In public health, they lead vaccination campaigns, health promotion, and disease surveillance. Nurse Practitioners often function as primary care providers, managing both acute and chronic conditions independently.

6. Challenges in the Profession

The nursing workforce faces multiple challenges:

• Workforce Shortages: Global nursing shortages, projected to exceed 10 million by 2030 (WHO), threaten care quality and accessibility.

• Burnout and Mental Health: High workloads, emotional labor, and trauma exposure contribute to burnout and psychological distress.

• Inequity and Disparities: Nurses frequently serve underserved populations, and systemic inequities affect both patient care and workforce diversity.

7. Future Directions

The future of nursing is being shaped by several trends:

• Technology Integration: Use of AI, robotics, and telehealth is expanding the reach and precision of nursing care.

• Leadership in Health Policy: Nurses are increasingly involved in shaping healthcare policy at local, national, and international levels.

• Global Health: With climate change, pandemics, and migration, nurses are vital in global health preparedness and response.

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Nursing will also benefit from expanded scope-of-practice laws, interprofessional collaboration, and initiatives like the World Health Organization's "Nursing Now" campaign, which promotes leadership and investment in nursing.

8. Conclusion

The nursing profession remains indispensable to healthcare systems worldwide. As both scientists and caregivers, nurses embody a unique synthesis of technical skill and human compassion. Continued investment in nursing education, workforce sustainability, and leadership development is essential for meeting the complex demands of 21st-century healthcare.

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