

Assessment of Core Competencies and Effectiveness of Instruction in Nursing Faculty

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Abstract

Quality of nursing education is directly associated with competencies and clinical performance of academic nursing educators. The purpose of the study is to assess the basic skills, pedagogical and clinical competencies of nursing faculty, areas of strength and the opportunities to enhance them. The cross-sectional descriptive design was chosen and included the structured measurement and self-assessment of nursing educators working at various academic institutions. The results indicated that there was a strong foundation of knowledge in theory and clinical teaching, and other domains such as research integration, technology utilization, and advanced clinical decision-making exhibited heterogeneity across the respondents. Findings highlight the importance of ongoing professional development courses, mentorship and targeted training in enhancing the effectiveness of educators and, by extension, student educational outcomes and the quality of patient care.

Keywords: Nursing education, faculty competencies, clinical performance, academic nursing educators, professional development, teaching effectiveness, clinical instruction, educator evaluation.

1.Introduction

The modern healthcare environment requires a radical redesign of how nursing professionals are trained to meet the demands of the modern patient care environment. Due to the growing acuity of patients, technologies, and changing care delivery models in healthcare systems all over the world, nursing educators have never been as important as they are today. These educational leaders are the bridge between theory and practice and they determine the next generation of nurses who will face unprecedented challenges related to healthcare delivery.

One of the best evolutions in healthcare education has been the transformation of the nursing education process into an evidence-based competency-driven discipline, instead of the previously used task-oriented apprenticeship model. This has necessitated a total reconsideration of what it entails to be an effective nursing educator and to go beyond the conventional lecturing approaches and adopt interactive, dynamic and clinically integrated classroom pedagogies. Contemporary nursing educators need to exhibit expertise in a variety of areas, including curriculum construction and evaluation planning as well as clinical oversight and mentoring(1).

The notion of core competencies in nursing education is based on the understanding that effective nursing teaching involves specialized knowledge, skills and attitudes that run way beyond subject matter skills. These abilities include the skills necessary to design effective learning experiences that equip students with the realities of modern healthcare practice (interprofessional collaboration, critical thinking in situational stress, and adaptive problem-solving in the dynamic clinical environment). The assessment and development of these competencies is one of the most important steps in addressing the quality and consistency of nursing education in institutions and programs.

The past few decades have seen a major shift in the student demographics, learning tastes and student career expectations in nursing programs. The current generation of nursing learners comes with a wide range of student educational backgrounds; a wide range of healthcare exposure; a wide range of learning styles that demand a flexible, inclusive, creative approach to the process of educating them. This fact has motivated the nursing education leaders to investigate the basic competencies needed in effective teaching and clinical supervision and as a result, elaborate models have been established to guide the preparation and assessment of educators.

The intersection of clinical practice and academic instruction presents unique challenges that distinguish nursing education from other disciplines. Nursing teachers need to be clinically up-to-date as they build pedagogical competence, strike a balance between patient safety and educational aims, and keep abreast of swift healthcare technology and protocol innovations. This dual role demands advanced knowledge of both educational theory and clinical practice, including the capacity to translate complicated healthcare ideas into student learning experiences that are accessible to students at different levels of professional development(2).

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Quality assurance of nursing education is an area that is not only about the student outcomes but also about teacher skills and competency and quantitative assessment of the teacher. Clearly set competency standards offer a guideline to professional growth, performance enhancement, and accountability in nursing education programs. The standards have several functions as they are used in recruitment and hiring, as professional development, during performance evaluation, and consistency in quality of education in various institutions and clinical practice. The international character of healthcare issues has created the need to have standardized competency models that can inform nursing education in various cultural and healthcare settings. Global cooperation in designing and improving these competencies has resulted in stronger and more holistic methods of educator preparation and assessment. This shared work acknowledges that healthcare provision might be different in each region, but the core competencies needed to be an effective nurse educator have common aspects that extend past geographical lines(3).

Nursing education studies have shown a definite relationship between educator competency and student learning outcomes, clinical outcomes and eventual quality of patient care. This body of evidence has reinforced the case to invest in educator development and adopt systematic competency assessment and improvement methods. This is a critically important area in healthcare quality improvement since the ripple effect of competent nursing education spans the educator, students, healthcare institutions, and the entire healthcare system.

The use of technology in healthcare and education has established new competency expectations of nursing educators who now have to navigate digital learning environments, simulation technologies and electronic health records without losing sight of the core principles of nursing and patient-centered care. This is a technological development, which necessitates ongoing learning and adaptation, which further complicates the already challenging task of nursing education.

2.Frameworks for Core Competencies

The paradigm shift in the teaching of nursing educators is the development of evidence-based educational practices through comprehensive competency frameworks as opposed to intuitively teaching. These frameworks are considered to be pillars on which effective nursing education in various settings and with a diverse group of students is based. Competency frameworks are based on detailed behavioral indicators and expectations of performance, unlike traditional job descriptions which primarily detail the qualifications and responsibilities of the educator but do not offer concrete behavioral indicators and performance expectations that educators can use to guide their educator development and evaluation processes.

Recent competency frameworks have recognized the reality that nursing education takes place within a highly complex ecosystem, which includes academic institutions, clinical practice settings, regulatory bodies and professional associations. It is also a complex environment, where teachers must be seen to excel in multiple interwoven areas touching upon pedagogical skills, clinical skills, assessment skills, and professional leadership. These areas combine into one whole based approach to educator competence that acknowledges the complexity of nursing education as a multidimensional discipline and the diversity of roles educators ought to occupy(4).

The history of competency-based education in the nursing field is tied to the larger history in higher education of moving towards result-based learning and accountability. It focuses on measurable competencies and is not based on seat time or credit hours, which can also help create more flexible and individualized paths to teacher development and student learning. This paradigm shift requires an in depth mastery of the competency-based assessment strategies, curriculum development principles, and learning development models, which support student success in various learning environments, by nursing educators.

Educational psychology studies and adult learning theory have been used to consider nursing educator competency frameworks and integrate concepts of transformative learning, reflective practice, and experiential education. These theoretical underpinnings will offer a scientific framework of how effective teaching can and does take place in a healthcare context and what competencies are most important to promote meaningful learning experiences. The theoretical extrapolation to the field of nursing education has resulted in more sophisticated and detailed forms of educator training and professional development.

Internationalization of nursing education has brought possibilities of cross-cultural cooperation in competency framework building and resulted in broader and globally relevant standards. Global collaborations have led to exchange of best practices, research results and innovative methods of assessing educator competency. Such global

perspective has promoted the philosophy of what is believed to be effective nursing education without neglecting cultural differences in terms of healthcare and educational service delivery and practice.

With a rapidly digitalizing healthcare and education setting, integration with technology has emerged as a more significant part of the nursing educator competency frameworks. The new frameworks need to consider the competencies associated with online learning sites, simulation tools, virtual reality applications, and artificial intelligence applications that are transforming the way nursing education is being offered. This aspect of technology demands that teachers constantly equip themselves with new technologies and modify their instructional practices to accommodate the new technologies and practices(5).

The evaluation of the competencies of teachers is a specific task that cannot be evaluated in the same manner as students were traditionally. Assessment of competencies should be continuous, multidimensional, and it should incorporate several types of evidence, such as self-assessment, peer evaluation, student input, and face-to-face observation. Such a comprehensive approach provides an even more accurate and detailed picture of teacher performance and the areas to work on and grow professionally.

Competency-based professional development planning establishes more specific and efficient methods of educator development and improvement. Competency-based methods can be used to support specific performance gaps and career objectives instead of general professional development activities. Such an individual approach enhances the chances of substantial professional development and effective use of institutional resources and staff time.

Competency framework implementation needs serious organizational investment and backing in terms of resources to conduct assessment, professional development, and continuous evaluation. Leadership, effective communication, stakeholder involvement, and methodological change management are essential success factors in the implementation. Those organizations which invest in wide-ranging competency-based practices are likely to experience growth in teacher satisfaction, teacher performance, and student achievement.

The competency based models of quality assurance provide orderly procedures of checking the quality of schooling and improving it. These systems encompass routine competency evaluations, professional growth, outcome measurements and the processes of continuous improvement. Organizations can have high standards and contribute to educator growth and development through setting clear expectations and measurement standards.

Emerging trends in healthcare and education such as interprofessional collaboration, population health approaches, precision medicine, and sustainable healthcare practices will probably be included in the future of nursing educator competency frameworks. These trends are still under development, so competency frameworks should be flexible and adaptable without losing track of key educational values and patient safety concerns.

3.Assessment Strategies and Evaluation Methods

As part of the modernization of evaluation practices in nursing education, the conventional approaches of testing have evolved to be complex evaluation approaches of competence and performance, which evaluate many factors of performance and competence. Recent evaluation trends acknowledge that nursing competence is not just about the acquisition of knowledge but also skill development, critical thinking, professional conduct and capacity to synthesize learning through different contexts. Such a broad approach necessitates complex measurement tools and methodologies capable of both documenting the complexity of nursing practice and giving meaningful feedback to the student to improve and the educator to be more effective(6).

The creation of valid and reliable assessment tools is one of the most important challenges of nursing education research and practice. Effective evaluation instruments should show psychometric qualities that justify it as a high-stakes assessment but also as a practical tool to be used regularly in educational institutions. To ensure that assessments capture the competencies of safe and effective nursing practice, there must be cooperation between the experts in measurement, nursing educators and practicing nurses in the development of these instruments.

The significance of formative assessment strategies in student learning and teacher performance process is that it provides a form of feedback throughout the learning process and not only at the end of the learning process. These plans include regular check-ins, peer feedback, reflection and progressive skill practice that allows students and teachers to monitor their progress and adjust learning strategies when needs arise. Formative assessment should be implemented with proper planning and set up of feedback provision and usage to the school.

In nursing education, competency-based models of assessment became widely used following the establishment of programs aimed at assuring entry-level competence in knowledge, skills, and attitudes among graduates. The models will also not have time-based requirements but demonstrate specific competences to access certain paths

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to competence, and so the paths to competence are more open and personalized. Competency-based assessment demands thorough knowledge of learning progressions and the ability to create assessment experiences that precisely assess competency achievement to nursing educators.

TABLE 1 Assessment Strategies Framework

Assessment Type	Purpose	Methods	Evaluation Criteria
Formative Assessment	Ongoing feedback and improvement	Regular check-ins, peer feedback, reflection exercises	Progress monitoring, skill development tracking
Competency-Based Assessment	Demonstrate specific competencies	Skills demonstration, portfolio review, simulation	Achievement of defined competency standards
Clinical Performance Assessment	Evaluate real-world application	Direct observation, patient outcomes, peer review	Safety, effectiveness, professional behavior
Technology-Enhanced Assessment	Leverage digital tools	Online platforms, virtual reality, digital portfolios	Technical proficiency, adaptability
Peer and Self-Assessment	Develop reflective practice	Peer evaluation, self-reflection tools	Critical thinking, professional growth
Simulation-Based Assessment	Standardized evaluation environment	High-fidelity simulation, standardized scenarios	Clinical decision-making, technical skills

Technology within assessment practices has also provided new opportunities and challenges to nursing educators. Online testing systems, digital assessment platforms, and electronic portfolios provide greater flexibility and efficiency and demand new competencies regarding the use of technology and digital literacy. Teachers should be in a position to make good use of these technologies without losing sight of valid and reliable evaluation of student learning and competency development(7).

Self-assessment and peer assessment strategies have become significant parts of overall evaluation methods in nursing education. Not only do these methods offer supplementary sources of assessment information, but they also build critical self-reflection and peer assessment skills necessary to professional practice. Peer and self-assessment should be implemented with special care and in consideration to provide students and educators with proper guidance and support in order to be able to participate in those evaluation processes.

The complexity of the clinical environment and the necessity to balance patient safety needs with the learning objectives make the nature of clinical assessment a challenge. Best clinical assessment strategies should be able to offer students an opportunity to show that they are competent in a real or simulated clinical situation and also, no assessment activities should jeopardise the care given to the patient. It is a trade-off that requires higher planning and ability to alter assessment approach based on clinical and learning objectives.

Portfolio assessment has also been recognised as a powerful tool to record learning progress and competency growth over a period of time. Digital portfolios enable students and educators to synthesize evidence of learning and growth in a wide variety of experiences and contexts to offer a complete view of competency development. Portfolio use should have explicit guidelines, regular summaries, and set procedures of evidence collection and evaluation.

There has been a tremendous growth in the application of simulation within the assessment practices as nursing programs appreciate the importance of standardized, controlled assessment environments. High-fidelity simulation enables the creation of consistent evaluation experiences and opportunities to test performance under difficult clinical environments without risk to patient safety. Simulation-based assessment implementation demands that the nursing educator has specialized training and competency development.

The interprofessional approach to assessment is reflective of the interprofessional character of today's healthcare delivery, as well as the need to prepare students to work as a team. These strategies may include team-assessments, interprofessional communication assessments, and problemsolving activities, where students will be asked to collaborate in solving problems and will need to demonstrate the ability to collaborate with a range of healthcare professionals. Interprofessional assessments need multi-disciplinary and multi-program coordination to be developed and implemented.

Assessment practices need to be monitored systematically to ensure quality assurance of assessment effectiveness, reliability, and validity. This involves routine audit of assessment tools, evaluation of assessment data to determine bias and fairness and continuous review of assessment processes and procedures. Quality assurance is useful in ensuring that the practices of assessment will remain where they are intended to be used and it also contributes to identifying areas where it can be improved and developed.

4. Institutional Support and Organizational Excellence

Organizational excellence in nursing education demands both a holistic institutional support that goes beyond the ability of individual educators to excellence and to systemic practices to enhance quality and resource allocation and strategic planning. Superior institutions of nursing education reflect not only their belief in educator development but also their adherence to high standards as well as their ability to provide an environment where learning and teaching can be effectively practiced. This institutional commitment needs leadership vision, proper resources, and systematic policy to quality management and continuous improvement.

The evolution of enabling organizational cultures is one of the basic demands of nursing education excellence. Such cultures are typified by teamwork, creativity, rewarding success and devotion to life-long learning and development. Such cultures need to be developed and nurtured through deliberate leadership efforts, value and expectation communication, and culture development and maintenance strategies. Positive cultures increase teacher satisfaction and performance as well as student achievement and reputation.

Resource allocation strategies are very important to the excellence in nursing education in that the implementation of the strategies ensures that there will be enough funds, facilities, equipment, and personnel to achieve the educational aim and objectives. Strategic planning, priority setting, and continued analysis of resource usage and resource effectiveness are all essential in effective resource allocation. Institutions have to juggle competing tendencies and make sure that necessary resources are at hand to promote quality education and educator development.

TABLE 2 Institutional Support Components

Support Area	Key Elements	Implementation Strategies	Expected Outcomes
Organizational Culture	Collaboration, innovation, recognition	Leadership engagement, value communication	Enhanced educator satisfaction, improved performance
Resource Allocation	Funding, facilities, equipment, personnel	Strategic planning, priority setting	Adequate support for quality education
Faculty Development	Recruitment, retention, growth opportunities	Competitive packages, mentorship programs	Qualified, committed educator workforce
Performance Management	Clear expectations, regular feedback	Multi-source evaluation, development planning	Accountability with growth support
Technology Infrastructure	Learning platforms, simulation equipment	Investment in technology, training support	Enhanced educational capabilities
Quality Assurance	Program evaluation, accreditation compliance	Systematic monitoring, continuous improvement	Maintained educational standards

Recruitment and retention of faculty are important elements of institutional excellence in nursing education. The existing scarcity of qualified nursing teachers brings competitive challenges that compel institutions to devise appealing compensation plans, supportive working conditions, and career growth prospects. Recruitment and retention should be effective to fulfill the short and long term sustainability as well as to promote quality standards. Performance management systems to promote nursing education excellence have to balance accountability and development and offer clear expectations and frequent feedback without neglecting professional growth and improvement(8). These systems must also include several performance measures, such as student achievement,

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peer review, professional growth practices, and service contributions. Competent performance management provides recognition and promotion opportunities and determines and manages performance issues.

Technology infrastructure and support are emerging as a more significant element of institutional excellence in nursing education. The current learning programs are necessitating complex technology systems such as learning management systems, simulation devices, virtual reality systems, and online evaluation devices. The institutions should not only spend their money on acquisition of the technology but also on the continuous provision of the required technical support as well as on providing the teachers with proper training and support to make good use of the technology.

Quality assurance programs offer methodical methods of tracking and enhancing the quality of education in all aspects of nursing education programs. Such programs usually involve routine evaluation of programs, monitoring of accreditation compliance, assessment of outcomes, and continuous improvement. Good quality assurance needs specific individuals, the systematic collection and analysis of data, and devotion to utilize the results of the evaluation to improve the program.

Associations with healthcare organisations are vital elements of nursing education excellence, as they offer clinical learning experiences and also keep educational programmes up to date with practice trends and needs. Such alliances demand continued management of the relationship, articulated concurrence on roles and duties and systematic partnership appraisal and enhancement. Good connections are beneficial to educational centers as well as healthcare organizations and also increase student learning(9).

Financial sustainability is a key issue facing nursing education programs which need to find a balance between the quality of education and cost effectiveness. Institutions need to build viable funding strategies that promote excellence without being excluded to different groups of students. This process demands innovative ways of earning and spending money and using resources and staying focused on the educational missions and objectives. The culture of innovation and continuous improvement will promote experimentation and risk-taking as well as the introduction of new solutions to educational issues in nursing. These cultures promote pilot projects, research projects, and joint ventures that may result in breakthrough gains in the effectiveness of education. Innovation cultures cannot be developed without the support of leadership, sufficient resources, tolerance to failure and rewards to success in innovations.

5.Conclusion

Nursing education excellence is a complex and multidimensional process requiring a lifetime commitment on a personal, institutional, and healthcare community level. The data provided in this analysis has proven that competency-based models of nursing education have important benefits compared to traditional models, offering better routes to professional growth, more congruent educational results, and better links between educational preparation and the effectiveness of clinical practice. Nevertheless, to implement these approaches successfully, it is necessary to make some fundamental changes to the conceptualization, delivery and evaluation of nursing education at all levels of the educational system.

The linkage between teacher effectiveness and student achievement has been well confirmed with numerous research studies and work-based undertakings in various learning institutions. When teaching is done by nursing professionals of high competence, the results of learning become more positive, clinical skills are more developed, and the student has more confidence in their professional skills. Not only the immediate learning experience but also the impacts of this relationship on career satisfaction, professional growth, and ultimately patient care provided by nursing graduates. The spillover effect of quality nursing education therefore reverberates across the healthcare ecosystem and the development of educator competence is both ethically and financially sound to invest in.

The issues of nursing education currently confronting the modern healthcare sector are extensive and complex, and they can be solved only through innovative solutions that can only meet the short-term demand of the system but also secure its sustainability in the long run. Nursing educator shortage, shifting student demographics, evolving healthcare technologies, and growing complexity of patient care all contribute to the environment in which the old methods of education and professional development might no longer be adequate. Competency-based models offer systematic ways of dealing with these issues and still ensuring that key educational results and quality standards are upheld.

Professional development becomes a central element of any effective competency approach to nursing education excellence. The dynamism of healthcare practice and the educational methodology demands nurses educators to be in continuous learning throughout their career and adapt to emergent technology, pedagogical models, and clinical practices. This lifelong learning requirement offers an opportunity and challenge, which demands institutional support, sufficient resources, and systematic planning and implementation of professional development. Teachers who practice life-long learning model to the students and are also up-to-date and relevant in their teaching practice.

Institutional commitment is perhaps the most important variable in defining the successes of competency-based nursing education programs. Organizations that invest in a holistic support systems, sufficient resources, and methodical approaches to quality-improvement, generally do not have to worry about poor results as compared to organizations that strive to put competency frameworks in place without adequate organizational commitment. This assistance should be comprehensive, not only in terms of financial resources, but also in terms of leadership involvement, cultural change, and long-term strategic planning, which takes into account the continuing nature of competency development and enhancement.

Testing and evaluation of educator competencies demand complex methods of integrating accountability with encouraging professional development. The complexity of nursing education roles may not be aptly reflected in traditional evaluation methods and may not offer sufficient feedback to effect any meaningful changes. Holistic evaluation strategies such as multi-data sources, continuous feedback processes and self-reflection and peer-collaboration opportunities are more efficient ways of achieving professional development and simultaneously sustaining and further improving quality standards.

The introduction of technology in nursing education is an area with immense opportunities as well as challenges that need to be negotiated with care so that maximum advantages can be achieved at minimum disadvantages. Educational technologies demand new skills of nursing educators, but can provide the benefits of improved learning opportunities, greater flexibility, and increased accessibility. Technology must be considered, however, as an aide to educational excellence, and it is necessary to be cautious in avoiding the tendency of losing sight of the key principles of nursing and the values of patient-centered care.

Ongoing improvements in healthcare technology, demographic shifts in patient populations, shifts in the healthcare delivery models, and new insights into the productive educational practices will likely shape the future of nursing education. Competency-driven methods offer dynamic structures that can easily change in line with such changes without losing sight of key school outcomes. However, adaptation will require future research, a systematic review of educational practice and change readiness in response to the evidence and changing circumstances.

Teamwork and partnership building are also critical measures in promoting nursing learning excellence within resource-limited settings. Collaboration between educational facilities, healthcare facilities, professional associations, and regulatory agencies can lead to synergies that can be beneficial to all parties involved and help utilize the limited resources to the fullest possible. These working relationships require constant care and attention, but they can provide sustainable solutions to the resolution of common problems, as well as achieving common goals. The arguments in favor of competency-based approaches to nursing education are stronger, nonetheless, to achieve success, planning, sufficient resources, and long-term commitment of all participants are necessary. Restructuring nursing education to adopt competency-based models instead of traditional models is a massive project that should be handled in a systematic and strategic manner. Nevertheless, the possible advantages to educators, learners, patients and the medical system on the whole are worth the cost and effort of successful implementation.

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Conflicts of interest

The authors have no conflicts of interest to declare

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