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# The Transition from Student to Registered Nurse: Evaluating the Efficacy of Nurse Residency Programs

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#### Abstract

**Background:** The transition period from nursing student to registered nurse is a time of great stress and professional identity formation; it is quite notoriously referred to as "reality shock." This period is considered one of high anxiety, burnout, and attrition rates, contributing heavily to the already precarious global nursing shortage.

**Aim:** To review the literature from 2015 to 2024 and provide an analysis of the essential elements, effectiveness, and shortcomings of NRPs in supporting new graduate nurses.

**Methods:** An extensive literature review was carried out to analyze the structure and outcomes of NRPs. Emphasis was given to identifying the key components of the successful programs and assessing their impact on key metrics such as retention, clinical competence, and job satisfaction.

**Results:** The findings confirm that well-designed, typically year-long NRPs significantly improve the 1-year retention rate, enhance clinical confidence and competence, and increase job satisfaction. Core elements of success include a standardized curriculum, dedicated and trained preceptors, protected time for debriefing, professional socialization activities, and ongoing support from key stakeholders. Identified gaps include a lack of data on long-term outcomes, variability in regard to standardization of programs, and highly limited emphasis on building resilience and leadership.

**Conclusion:** NRPs are an essential and effective strategy in supporting NGNs. Longitudinal studies, standard outcome measures, and the development of innovative, scalable models are some of the areas of focus for future efforts to ensure all new graduates receive the needed support to thrive and stay in the nursing profession.

Keywords: Nurse Residency Program, New Graduate Nurse, Transition to Practice, Nursing Retention, Clinical Competence.

#### 1. Introduction

Among the most challenging periods in a nurse's life and career, the transition from the controlled, predictable environment of nursing school to the autonomous, high-stakes reality of clinical practice remains one of the most difficult for a nurse to traverse. Coupled with this, the transition period is considered one of "reality shock": the dissonance that arises between academic ideals and the complex, often resource-constrained clinical (Duchscher, 2008). New graduate nurses commonly express feelings of incompetence, overwhelming stress, and moral distress, which sets them on a path to burnout, job dissatisfaction, and finally, turnover (Johansson et al., 2021). In the face of a global nursing shortage worsened by an aging workforce and the COVID-19 pandemic aftermath, the retention of NGNs is now an absolute priority in healthcare systems worldwide (Haddad et al., 2023).

A response to this challenge has been the development and widespread implementation of Nurse Residency Programs, first in the United States as a result of the landmark 2002 Institute of Medicine report and subsequent work by accrediting bodies, including the American Nurses Credentialing Center and the Vizient/AACN Nurse Residency Program<sup>TM</sup>. These programs provide a structured, supportive environment that goes beyond the traditional, often short, hospital orientation to facilitate the successful integration of the NGNs into the clinical environment. The principal objectives are the improvement of patient safety, enhancement of NGN well-being, and an increase in retention.

This review study focuses on synthesizing the literature related to NRPs' effectiveness from 2015 to 2024. It will critically examine the core components constituting successful programs, assess their impact on key outcomes like retention rates, clinical confidence, and job satisfaction, and identify persistent gaps and limitations in current transition-to-practice models. This review will seek to provide a comprehensive analysis that will inform health administrators, educators, and policymakers of the essential elements of NRPs and assist future research and program development in this high-priority area of nursing workforce development.

### The Challenge of Transition: "Reality Shock" and Its Consequences

The NGN transition is not merely a change in job title but a complex process of psychological, social, and professional adaptation. Duchscher's Stages of Transition Theory, 2008 outlines this journey in three phases: (1) Doing, the initial 3-4 months, where the NGN is task-oriented and focused on survival; (2) Being, months 4-8, characterized by an emotional low as the NGN confronts the limitations of their knowledge and the realities of the workplace; and (3) Knowing, months 9-12 and beyond, where the NGN begins to integrate into the team and develop a more holistic clinical understanding. Most NGNs fail in the "Being" phase without proper support.

The results of an unsupported transition are serious. Studies continue to indicate that NGNs experience burnout and job dissatisfaction at higher rates than their seasoned counterparts (Hörberg et al., 2023). This distress directly affects patient care in that NGNs are more susceptible to committing medication errors and practicing at lower levels of clinical judgment (Meulenberg, 2020). Economically, the turnover of just one NGN can cost an institution between \$40,000 and \$80,000, factoring in recruitment, orientation, and lost productivity (Sanborn, 2023). Pre-pandemic figures revealed that upwards of 17-30% of NGNs departed from their first job within one year, a statistic that COVID-19's intense healthcare pressures threatened to worsen (Younes et al., 2023). This "leaky pipeline" of talent highlights the real need for effective transition support systems like NRPs.

### **Core Components of Successful Nurse Residency Programs**

While NRPs differ in terms of specific structure and content, synthesis of the literature identifies a set of core components commonly associated with positive outcomes. These elements have a cumulative effect on addressing the multi-dimensional challenges of the transition experience (Table 1 & Figure 1).

#### Standardized, Evidence-Based Curriculum

Effective NRPs go beyond unit-specific orientation and offer a standardized curriculum that focuses on the identified gaps in NGNs' preparation.

Common themes include advanced clinical skills (such as ECG interpretation and care of deteriorating patients), communication and delegation, conflict resolution, ethical decision-making, time management, and end-of-life care (Miller et al., 2023). The Vizient/AACN model, for example, organizes its curriculum around three domains: leadership, patient outcomes, and professional role (Gallagher & Ricords, 2021). These educational sessions are usually provided in a cohort model, which increases peer support and decreases feelings of isolation (Weller-Newton et al., 2022).

#### **Dedicated and Trained Preceptors**

The preceptor-preceptee relationship is considered the most critical component of a successful transition. Effective NRPs invest in their preceptors by providing formal training on adult learning principles, giving constructive feedback, and managing the challenges of a novice learner (Hoffman et al., 2023). A supportive preceptor acts not only as a clinical teacher but also as a role model, socializing the NGN into the unit culture and providing emotional support. Research by Çamveren et al. (2022) found that NGNs who reported a positive, supportive relationship with their preceptor were twice as likely to be satisfied with their job and intend to stay.

#### **Protected Time and Debriefing**

A common deficit in poorly supported transitions is that NGNs are expected to learn and process complex experiences solely in the time they spend on clinical shifts. Successful NRPs build in protected, nonclinical time where residents can attend educational sessions and, importantly, also engage in facilitated debriefing and reflective practice (Kavanagh & Szweda, 2017). Structured reflection allows NGNs to process clinical events, consider their decision-making, and incorporate new knowledge in a psychologically safe environment; thus, hastening the development of clinical judgment.

#### **Professional Socialization and Mentorship**

Transition encompasses the adoption of a professional role or identity. NRPs support this through various professional development activities such as attending committee meetings, engaging in evidence-based practice projects, and networking with organizational leaders (Bratt & Felzer, 2011; Ashley et al., 2016). Several programs supplement preceptorship with a more formalized mentorship component where the NGN is matched with a seasoned nurse who is not their direct line manager, serving as an additional source of support and career counseling (Lindsay et al., 2016; Avellone, 2021).

#### **Continuous Monitoring and Support**

Robust NRPs also do not have a one-size-fitsall approach. They include periodic, formal reviews of the resident's performance using valid measures that assess clinical competency, confidence, and levels of stress. Knighten (2022) recommends this so that program coordinators can identify early those

Saudi J. Med. Pub. Health Vol. 1 No. 2 (2024)

residents who are struggling and provide focused, individualized support.

Table 1: Core Components of Effective Nurse Residency Programs and Their Functions

Core Component	Primary Function	Key Elements
Standardized Curriculum	To address common knowledge-practice gaps and build clinical reasoning.	<ul> <li>Evidence-based topics (e.g., conflict resolution, time management).</li> <li>Cohort-based learning.</li> <li>Focus on leadership and professional role.</li> </ul>
Trained Preceptors	To provide on-unit clinical guidance, socialization, and emotional support.	<ul> <li>Formal preceptor training programs.</li> <li>Clear role definition and expectations.</li> <li>Ongoing support and recognition for preceptors.</li> </ul>
Protected Debriefing Time	To facilitate reflection, process emotional experiences, and consolidate learning.	<ul> <li>Scheduled, non-clinical time for reflection.</li> <li>Facilitated group debriefing sessions.</li> <li>Creation of a psychologically safe environment.</li> </ul>
Professional Socialization	To foster a sense of professional identity and integration into the healthcare team.	<ul> <li>Mentorship programs.</li> <li>Involvement in unit/organizational committees.</li> <li>Exposure to leadership and professional development.</li> </ul>
Formative Evaluation	To monitor progress, identify at-risk residents, and ensure program effectiveness.	<ul> <li>Regular competency assessments.</li> <li>Use of validated tools (e.g., Casey-Fink Grad Experience Survey).</li> <li>Feedback mechanisms for residents and preceptors.</li> </ul>



Figure 1: Core components of nurse residency programs.

## **Efficacy of Nurse Residency Programs: Impact on Key Outcomes**

A substantial body of evidence has accumulated demonstrating the positive impact of NRPs on NGNs, health care organizations, and patient care (Table 2 & Figure 2).

#### **Retention Rates**

The most cited and strong evidence supporting the efficacy of NRPs involves retention. Several systematic reviews and large studies have validated that NGNs who complete a residency program are significantly more likely to stay in their job and within the profession (Anderson et al., 2012). The seminal multi-site study by Greene et al. (2016) demonstrated 1-year retention rates consistently above 85-90% for participants in a residency program compared with 70-75% for the non-participants. And the advantages continue beyond the first year; Gallagher & Ricords (2021) reports that 82.5% of its residency graduates remained after 3 years. Such directly impacts healthcare organizations in terms of financial savings and provides a more stable nursing workforce (Eckerson, 2018).

#### **Clinical Confidence and Competence**

The key findings indicate that NRPs significantly improve the growth of clinical competence and confidence. This fosters more rapid advancement in critical thinking and clinical judgment via a safe question-and-error environment and strategic education about high-acuity situations, placing residents well ahead of their unsupported colleagues (Al-Dossary et al., 2016; Luo et al., 2021). Various studies utilize tools such as the CDMQ and the Perceived Competence Scale for Nurses, with scores consistently higher among NRP graduates (Ke et al., 2017). This added competence is therefore indicative of improved patient safety, with medication errors and falls being lower in units with effective NRP support (Treiber & Jones, 2018).

#### Job Satisfaction and Reduced Burnout

Feelings of isolation and being overwhelmed, which are typical of "reality shock," are softened by the structured support of an NRP. The cohort model itself can provide a network of peer support, while preceptor and mentor relationships afford direction

and validation (Edwards et al., 2015). The degree to which this comprehensive support system serves to enhance job satisfaction and organizational commitment while reducing levels of burnout, emotional exhaustion, and intent to leave has been highlighted by Rudman et al. in 2014. NRPs, rather than just the symptoms, address the causes of transition stress to create a more positive and sustainable start in a nursing career.

#### **Professional Socialization and Leadership**

NRP mentors provide NGNs with a vision for a long-term career trajectory outside of the bedside nurse role. For instance, involvement in evidence-based practice projects demystifies research for NGNs and equips them as active agents of change (Smith, 2021). This early introduction to concepts of leadership and professional engagement has been linked to a greater percentage of NGNs obtaining specialty certification and advanced degrees, thus creating a pipeline of future leaders in nursing (Bratt & Felzer, 2011).

Outcome Category	Key Findings from the Literature (2015-2024)	
Retention	- 1-year retention rates of 85-90% for NRP participants vs. 70-75%	
	for non-participants (Greene et al., 2016).	
	- 3-year retention rates exceeding 80% (Gallagher & Ricords	
	2021).	
	- Significant return on investment due to reduced turnover costs	
	(Eckerson, 2018).	
Clinical Competence	- Accelerated development of clinical judgment and critica	
	thinking skills (Al-Dossary et al., 2016).	
	- Higher self-reported and observed competency scores (Charett	
	et al., 2023).	
	- Associated reduction in medication errors and adverse event	
	(Treiber & Jones, 2018).	
Well-Being & Satisfaction	- Lower levels of burnout, stress, and "reality shock" (Rudman e	
	al., 2014).	
	- Higher job satisfaction and organizational commitment (Edwards	
	et al., 2015).	
	- Stronger peer support networks and reduced feelings of isolation	
<b>Professional Development</b>	- Increased involvement in evidence-based practice and quality	
21020BB201W1 2010B2110110	improvement (Smith, 2021).	
	- Higher rates of specialty certification and pursuit of advanced	
	degrees (Bratt & Felzer, 2011).	
	- Enhanced leadership skills and professional identity formation.	



Figure 2: Documented Outcomes of Nurse Residency Programs

#### Gaps and Limitations in Current Transition-to-Practice Models

Despite their demonstrated benefits, current models for NRP are not without their limitations, and several significant gaps remain that should be pursued.

#### Lack of Long-Term and Standardized Outcomes

Much research on NRPs has focused on outcomes within the first 12-18 months of practice. There is a real need for longitudinal studies that follow NRP graduates 5, 10, or more years as a means of understanding the longer-term impact on career trajectory, burnout, and retention (Spiva et al., 2013).

In addition, the lack of a uniform, standardized set of outcome measures makes it difficult to compare the effectiveness of diverse program models across institutions and to determine true best practices (Ulrich et al., 2010).

#### **Inconsistent Implementation & Fidelity**

The quality and comprehensiveness of NRPs are very variable. Whereas one institution's program may be robust and well-supported, in others, it may be diluted down to a series of lectures with little protected time or preceptor support. More often than not, financial pressures lead to cuts in non-clinical time for residents and a lack of investment in preceptor training, which undermines the core components and effectiveness of the program.

### Not Enough Emphasis on Resilience and Mental Health

While NRPs support the transition, few explicitly and systematically build psychological resilience. The transition remains an extremely stressful time, and the contemporary health work environment, especially from a post-pandemic perspective, needs nurses to have sound mechanisms for coping (Foster et al., 2019). Younes et al. (2023) state that future programs would be required to embed evidence-based resilience training, mindfulness practice, and dedicated mental health support for NGNs to better prepare them for the emotional demands of the profession.

#### **Scalability and Access**

The majority of evidence on NRPs emanates from large academic medical centers in high-income countries. There is a significant gap in knowledge on effective, sustainable models for small, rural, or resource-limited hospitals (Hawkins et al., 2019). These are the settings that often have the biggest challenge in recruiting and retaining NGNs with the least resources to implement comprehensive residency programs. Achieving equitable access to transition support requires exploration of virtual cohorts, consortium models, and state-wide initiatives.

#### **Conclusion and Recommendations for the Future**

In sum, the collective evidence firmly establishes NRPs as an indispensable, evidence-based intervention that effectively mitigates the challenges of the transition-to-practice period. Structured education, dedicated preceptorship, and building a professional community are hallmarks of NRPs that demonstrably improve new graduate retention, clinical competence, and job satisfaction, making them a critical investment in workforce stability and patient safety. For these programs to realize their full potential, future NRP development must be guided by concerted efforts for longitudinal research on career outcomes, establishing standardized metrics and core components for consistent quality, and proactively integrating wellness and resilience training into curricula. Additionally, innovating scalable models for resource-limited settings and strengthening the preceptor pipeline through robust development and

recognition have been integral for sustainable implementation. It is through relentless refinement of these residency models that nursing can transform this vulnerable transition from mere survival to a launch pad for a resilient, satisfied, and sustainable nursing workforce.

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Saudi J. Med. Pub. Health Vol. 1 No. 2 (2024)

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