SYSTEMATIC LITERATURE REVIEW OF THE EFFECTS OF CLINICAL MENTORING ON NEW GRADUATE REGISTERED NURSES’ CLINICAL PERFORMANCE, JOB SATISFACTION AND JOB RETENTION

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ABSTRACT

OBJECTIVE
The purpose of this systematic literature review is to appraise contemporary research literature examining the effects of mentoring on graduate registered nurses’ transition to practice objectively and systematically. These areas, specifically examined, are competence, job satisfaction, and retention. Three themes emerged from the research in this area. The themes are informal mentoring effectiveness, the extent of mentoring, and mentoring efficacy.

METHODS
The PRISMA method was implemented. Articles reviewed were written in English and published between December 2015 and December 2020 and obtained from the Griffith University Library electronic catalogue. A quality assessment of each record not excluded in the title and abstract analysis was undertaken using the method described by Kmet.[1] Those with a quality rating of 16 as a minimum are included in this systematic literature review.

RESULTS
Three quantitative, two qualitative and two-method research studies emerged after applying inclusion criteria, selection, and quality assessment. The analysis demonstrated the positive effects of mentoring on all three avenues with one mixed-method study that documented a downward trend in job satisfaction at six months.

CONCLUSIONS
Mentoring is an effective transition to practice strategy for novice nurses. It affects competence, job satisfaction and retention positively. Retention and resignation rates worsen following 12 months of employment. Robust and rigorous studies are essential to justify long-term mentoring programs’ cost-effectiveness.
nurse mentoring, new graduate registered nurses, clinical competence, job satisfaction, turnover, retention.

INTRODUCTION

Newly qualified nurses enter the workforce sometimes almost bereft of support [2] alongside mounting healthcare demands and patient complexity.[3] This situation creates a dilemma between theoretical expectations and practical realities. [4,5] and may develop into ‘reality shock’ and ‘occupational stress’. [6] These factors lead to increased resignations and turnover [7]; correlating with new graduates’ attrition rates of up to 60% during their first year of transition.[8] Because time and resources are invested during the transition phase, graduates’ attrition becomes costly and improvident. [2]

Mentoring is an effective strategy that addresses the incongruence between theory and practice. Advocates of mentoring contend that it improves clinical competencies, job satisfaction and retention. [2] There are ongoing deliberations on the return on investment (ROI) of mentoring alongside outcomes in stabilising human resources. [9] To date, the content, structure, frequency, and duration of mentoring programs remain non-standardised; [10] making recommendations and evaluations challenging.

There are various methods and structures deployed in the delivery of mentoring. Firstly, it can be established or developed, with the former based on the theoretical framework and implemented large-scale by more prominent companies.[9] The Versant Nurse Residency Program [9,11] in the United States is an example with the latter established as a less-formal activity within smaller organisations.[6] Mentoring arrangements could either be in dyads, triads, or groups. The mentor-protégé dyad is a symbiotic partnership between experienced and novice nurses.[6,12] A triad occurs when a peer mentor becomes supplementary support to the new graduate registered nurse (NGRN). [13] Group mentoring is cost-effective and provides frequent mentor interactions.[11]

Patient safety and skill mix trepidations [14] often confront nurse managers and organisational stakeholders, alongside the universal apprehensions of sustaining the nursing workforce’s recruitment and retention.[15] With the burgeoning employment of NGRN’s into the workforce, implementation of transitional support framework is vital to address potential gaps in patient care delivery and facilitate the seamless transition of new staff. [3,14]

This study aims to explore current data relating to mentoring effects on new graduate registered nurses’ proficiencies, contentment, and retention.

BACKGROUND

There is currently an influx of novice nurses and a paucity of seasoned nurses who could potentially mentor them. [5,16]. This situation leads to new nurses feeling overwhelmed and dissuaded; and with the realisation of the contrary roles, ‘reality shock’ [6] sometimes presents itself. NGRN’s experience a transitional period early in their career wherein they undergo role changes from being a student nurse to a registered nurse (RN). [5] This period is critical as it influences their clinical performance and career trajectory ). [17-19]

An NGRN is a fully qualified first-year RN who completed at least a three-year degree inclusive of a combination of university theoretical and practical components alongside hospital clinical placements. [20] The first year of embarking into the workforce is crucial for an NGRN as they often experience the inconsistencies between theoretical ideologies and practical realities. [20] If supported and managed appropriately, NGRN develops job satisfaction and work confidence, [4,5,21] contributing to staff retention. [22] Conversely, mismanagement could lead to ‘reality shock’, [23] staff burnout and increasing turnovers. [24-25] The transition process is complicated, dynamic, and taxing to NGRN’s. [5]

Benner’s tenet on novice to expert model has influenced nursing practice since 1982. The model incorporates the Dreyfus Model of Skill Acquisition [26] and outlines how nursing skill acquisition develops over time. [27] Benner defines ‘novice nurse’ as an individual with no real-life nursing experience; therefore, they cannot exercise ‘discretionary judgment’, thereby necessitating recurrent
Mentoring, defined by Stewart and Krueger, cited in Mills, Francis.[30] is an expert-protégé nurse dyad characterised by reciprocal teaching and learning. [19] Mentoring aims to broaden knowledge base, improve professional practice, foster career progression, and retain staff. It can be a formal framework or an informal relationship; and entails sharing common goals and values between mentor and protégé. [31,32] Mentorship is different from preceptorship characterised by a supervisory, evaluative, and time-bound relationship between a novice and an experienced nurse. [33]

Clinical performance is defined as delivering safe, competent, appropriate, and timely clinical services by a health care provider to a patient with a particular health condition. It aims to accomplish desirable health outcomes and patient satisfaction. [34,35] Clinical performance is the continuous and perceptive application of skills and the subsequent reflection of practices. [36]

Job satisfaction is a sense of enjoyment and fulfilment derived from work, allowing the individual to feel motivated. It can be affected by various components related to tenure, such as leadership, colleagues, workload, and business model. [37,38]

Das and Baruah [22] found that employee retention is a structured approach with policies and procedures intended to create a culture that retains employees by meeting their diverse needs. It is a business strategy used to sustain workforce efficiency and attain organisational goals. [39]

As mentorship transcends the contractual and periodical limitations of preceptorship, [33] investigations of its effects on nurse retention, job satisfaction and competence become worthwhile. Awareness of the needs of progressing NGRNs enables colleagues, nurse managers, and organisations to make informed judgment to bolster protégés and foster positive workplace ethos. [10,40]

**RESEARCH QUESTIONS**

This study aims to answer the following research questions:

1. **What are the effects of clinical mentoring on NGRNs' clinical performance?**
2. **What are the effects of clinical mentoring on NGRNs' job satisfaction?**
3. **What are the effects of clinical mentoring on NGRNs' job retention?**

**SCOPE**

Only academic or scholarly English language articles published between 8 December 2015 to 8 December November 2020 that focused on mentoring of NGRN's and its effects on clinical competence, job satisfaction, and/or occupational retention are included. The reviewed literature encompassed nursing journal articles that were either peer-reviewed or refereed. The variety includes original journal articles and research, systematic and literature reviews, and case reports. The current review focuses on various mentoring approaches and structures executed to NGRN's working in direct patient care areas. A preliminary screen applied the selection criteria to cull the number of studies identified. Subsequently, a scoring tool designed by Kmet et al. [1] further scrutinises the quality of the remaining studies (Fig. 1, Fig. 2). Table 1 lists the inclusion and exclusion criteria.

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**METHODS**

This study utilised a systematic literature review (SLR) as its research method, which encompasses critical perusal, systematic analysis and synthesis of published articles concerning mentoring and its effect on clinical performance, job satisfaction, and retention of NGRN's. It aids in understanding existing theories that serve as implementation bases of an intervention, outlines theoretical criticisms, maps existing evidence related to the...
main topic, identify gaps in the literature, and advise future research endeavours.

The authors used the Griffith University electronic library catalogue to search for relevant peer-reviewed, refereed, and scholarly articles. The Griffith University electronic library catalogue incorporates highly ranked, health-related academic databases such as MedLine, Cumulative Index to Nursing and Allied Health Literature, ScienceDirect, PubMed, Cochrane, ProQuest, EBSCOhost, and Scopus. Table 2 reproduces the search strings of keywords and Boolean operators and their results.

The Preferred Reporting Items for Systematic Reviews and Meta-Analyses statement (PRISMA) [41] (Fig. 1) was applied, to ensure transparency and comprehensive reporting on evidence-based strategies that can be used to inform future intervention modifications. [42]

Utilising the PRISMA statement, predetermined inclusion and exclusion criteria (Table 1) were used to evaluate the retrieved literature. Initial screening involved examining the title, then abstract and conclusions to establish if the article conformed to the current study’s objectives. Articles with title, abstract and conclusions that contained words related to nurse mentorship and its effects on nurse graduates’ clinical performance, job satisfaction and retention were included in the current study. These narrowed down the included articles as detailed in Fig. 1.

The remaining evidence was meticulously read and scored according to Standard Quality Assessment Scores (SQAS) [43] shown in Fig. 2 and Fig. 3 for quantitative and qualitative studies, respectively. Mixed method studies, however, have corresponding independently scored quantitative and qualitative sections. For studies to be eligible for SLR inclusion, corresponding Quantitative and Qualitative sections SQAS must be at least 18 and 16, respectively. This step ensures the inclusion of only high-quality literature. Table 4 lists qualified studies with high SQAS.

| Table 1. Criteria utilised for inclusion and exclusion of articles in current review |
|-----------------------------------------------|-----------------------------------------------|
| Inclusion criteria                            | Exclusion criteria                            |
| Articles published between 8/12/2015 to 8/12/2020 | Grey literature                              |
| Nurse mentorship articles that mention its effects on clinical performance, job satisfaction and/or job retention | Nurse preceptorship articles |
| Nursing discipline                             | SQAS Qualitative score < 16                  |
| Academic or scholarly materials                | SQAS Quantitative score < 18                 |
| Peer-reviewed or refereed materials            |                                              |
| Systematic reviews, meta-analyses and case reports |                                              |
| Articles published in English                  |                                              |

| Table 2. Search keyword combinations and Boolean operators with corresponding search results (from 8 December 2015 to 8 December 2020) |
|---------------------------------------------------------------|---------------------------------------------------------------|
| Search keyword combinations and Boolean operators | Article search results (expanded beyond Griffith University website) | Results used in SLR |
| "nurse mentor**"                                              | 270                                                           | No                 |
| ("nurse mentor") AND ("job satisfaction" OR "job retention") AND ("clinical performance") | 2                                                             | No                 |
| ("nurse mentor") AND ("job satisfaction" OR "job retention") AND ("clinical performance") OR ("novice nurses") OR ("new graduate") | 30                                                            | Yes                |

Systematic Literature Review of The Effects Of Clinical Mentoring On New Graduate Registered Nurses’ Clinical Performance, Job Satisfaction And Job Retention

Fig. 1. Preferred Reporting Items for Systematic Reviews and Meta-Analyses (PRISMA) diagram showing a summary of findings at the outcome level.

FIGURE 2: STANDARD QUALITY ASSESSMENT SCORE (SQAS)

<table>
<thead>
<tr>
<th>Criteria</th>
<th>Yes (2)</th>
<th>Partial (1)</th>
<th>No (0)</th>
<th>N/A</th>
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<tbody>
<tr>
<td>1. Question / objective sufficiently described?</td>
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<td>2. Study design evident and appropriate?</td>
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<tr>
<td>3. Method of subject/ comparison group selection or source of information/input variables described and appropriate?</td>
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<td>4. Subject (and comparison group, if applicable) characteristics sufficiently described?</td>
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<td>5. If interventional and random allocation was possible, was it described?</td>
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<td>6. If interventional and blinding of investigators was possible, was it reported?</td>
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<td>7. If interventional and blinding of subjects was possible, was it reported?</td>
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<td>8. Outcome and (if applicable) exposure measure(s) well defined and robust to measurement / misclassification bias? Means of assessment reported?</td>
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<td>9. Sample size appropriate?</td>
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<td>10. Analytical methods described/ justified and appropriate?</td>
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<td>11. Some estimate of variance is reported for the main results?</td>
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<td>12. Controlled for confounding?</td>
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<tr>
<td>13. Results reported in sufficient detail?</td>
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<tr>
<td>14. Conclusions supported by results?</td>
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Fig. 2 Standard Quality Assessment Score (SQAS). Checklist for assessing the quality of quantitative studies. Source: Kmet, Lee 19. The summation of individual scores for 'yes', 'partial', and 'no' were attributed to each quantitative study included in this review, as outlined in Table 3. Quantitative SQAS range from 0 to 28, indicating low quality and high quality, respectively.
LITERATURE REVIEW

All the reviewed publications support the effectiveness of mentoring as a transitional approach for NGRNs [5,6,9,11,13,19,44]. The majority of these studies report positive effects of clinical mentoring on NGRNs' job satisfaction, clinical performance, and retention. An exception to this is the article by Ackerson and Stiles [9] who contend that professional satisfaction plummeted, possibly due to feelings of detachment or lack of feelings of competency halfway and towards the end of a 1-year (NRP) Nurse Residency Program (Table 4). Zhang, Qian [6] encountered a study that did not see any difference in job satisfaction levels between mentoring program participants and non-participants.
Table 4. Mentoring articles included in review

<table>
<thead>
<tr>
<th>Authors</th>
<th>Main findings</th>
<th>Mentoring effects on job satisfaction</th>
<th>Mentoring effects on performance</th>
<th>Mentoring effects on job retention</th>
<th>Quantitative SQAS</th>
<th>Qualitative SQAS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ackerson and Siles</td>
<td>Many unprepared novice nurses cannot meet work demands, resulting to stress and turnover. Nurse residency program (NRP) provides mentorship and peer support. NRP effectiveness is dependent on content rather than structure. Retention was unsustained at second year, possibly attributed to mentorship incompatibility to NGRN’s. Mitigating strategies include 15-month Wisconsin NRP and optional exploration phase program.</td>
<td>Job satisfaction fell, probably due to disengagement or incompetence at 6 and 12 months of NRP.</td>
<td>Autonomous clinical decision making.</td>
<td>NRP has positive return on investment (ROI) (increases retention rates; reduces turnover; recruitment and replacement fees).</td>
<td>22</td>
<td>19</td>
</tr>
<tr>
<td>Baumann, et al.</td>
<td>NGRNs’ unpreparedness in joining the workforce is a widespread concern. Consistent and extended Transition programs (TP’s) improve care quality. Compared to non-participants, TP participants have higher key dimensions of care delivery scores that improve over time. Mentorship standardisation and best practices remain inconsistent.</td>
<td>TP’s bridge the gap between education and practice, which foster job satisfaction.</td>
<td>TP’s augment job attainment.</td>
<td>Increases retention rates; minimises staff turnover.</td>
<td>24</td>
<td>N/A</td>
</tr>
<tr>
<td>Gelarti, et al.</td>
<td>NGRN transition to independent RN role is stressful. Senior nursing staff turnover has led to NGRN role transition issues and loss of mentorship figures. An advocacy framework program and transformational leadership style aid NGRN’s role transition to RN roles. NGRN’s have higher expectations from management during the orientation phase of the transition period. An accessible and versatile manager is needed to support NGRN’s during the transition phase. An established agreement between nurse managers and nurse educators regarding NGRN competencies and knowledge base will assist in NGRN’s understanding of their roles</td>
<td>Trainee program and transformational leadership lead to job satisfaction.</td>
<td>An introduction during the orientation phase provides avenues for NGRN’s to ask questions and improve the delivery of safe patient care. Confidence is gained secondary to NGRN’s conversing with superiors. NGRN’s noted the need to revise tutoring and work introduction in order to address the theory-practice discrepancy</td>
<td>Trainee program and transformational leadership lead to staff retention. NGRN’s utilise their role in replacing seasoned nurses when they retire. Concerns about patient safety are documented to be the reasons for NGRN’s resignations during their first year of practice.</td>
<td>N/A</td>
<td>17</td>
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Table 4 (continued)

<table>
<thead>
<tr>
<th>Authors</th>
<th>Main findings</th>
<th>Mentoring effects on job satisfaction</th>
<th>Mentoring effects on performance</th>
<th>Mentoring effects on job retention</th>
<th>Quantitative SQAS</th>
<th>Qualitative SQAS</th>
</tr>
</thead>
<tbody>
<tr>
<td>McManus, et al.</td>
<td>New graduate transition programs in New Zealand and Australia focus on attracting NGRN’s into Primary Health Care (PHC). Nurse mentors in general practice (GP) settings are confronted with barriers related to time management and funding. Recruitment-retention strategies are geared more towards nurses working in acute care settings. Lower remuneration rates and negative perceptions regarding turnover rates in GP work affect job retention rates of PHC nurses. There is ample documentation of transitional changes experienced by NGRN’s in acute care settings leading to poor job retention and lower job satisfaction. Studies not seen in PHC.</td>
<td>NG program satisfaction and nurse career progression noted. Mentors also learned from mentors</td>
<td>Honed a wider range of clinical skills GP. Developed confidence in initiating new programs and fostered work independence</td>
<td>NG program in GP sector can ameliorate nursing workforce shortages. NGRN’s who completed the NG program expressed strong desires to remain working in GP settings</td>
<td>N/A</td>
<td>16</td>
</tr>
<tr>
<td>Vermett and Lin</td>
<td>&quot;Generational mentoring&quot; solidifies relationships, bridges generational gaps, and breeds new mentors. Overall staff responsibility to mentor NGRN’s. Managerial support permeates mentoring and high practice standards. Delivers roles of preceptor (instructive/educative); mentor (supportive); and facilitator (communication/mentoring). Traditional mentorship is intensive and exclusive. Contemporary mentorship is supportive, caring, pleasureable and satisfying. Mentor characteristics shared (i.e., confident advisor; participative teacher; development-oriented; aspirational thinker).</td>
<td>Job satisfaction resulting from positive effects of Generational approach to mentoring.</td>
<td>Job satisfaction ensues from continuity of mentoring and delivery of high standards of care.</td>
<td>Nurtures professional growth; promotes high quality nursing practice; increases optimal patient outcomes; decreases stress; facilitates transition to independent roles; empowers communication; develops leadership skills; and improves confidence. Mentorship necessary to cope with health care demands.</td>
<td>16</td>
<td>17</td>
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</table>

There is a link between retention and turnover. A literature review revealed that retention and turnover are used interchangeably, as terminologies and as measures of mentoring effectiveness. [6] Conversely, Ackerson and Stiles [9] found no literature source that defined both terms. However, Williams, Scott [11] preferred turnover to retention, asserting that the latter is easily understood. Retention is described as a collective term reflective of influencing factors that encourage or hinder job satisfaction. In terms of measuring parameters over time, turnover rates during the first year is around 20% to 70%, [6] with resignations related to NGRNs’ concerns about their ability to maintain patient safety; [5] whilst 17% of NGRN’s leave, [44] with attrition or job-change rates surging to 31% at the end of third year. [44]

costs per resignation and turnover, amounting to approximately $60,000 and $71,000, respectively. McInnes, Halcomb [19] noted that the gearing of recruitment-retention strategies is more towards nurses working in acute care settings than in primary health care (PHC).

Regarding precepting and mentoring, these roles are delineated by most included literature, [6,11,13] with role clarification of a facilitator, focusing on mentorship coordination and pairing. [13] However, an SLR conducted by Zhang, Qian [6] found that both terms are not clearly defined by most studies previously examined.

After reviewing the literature, different contrasting structures of mentoring emerged such as formal and informal mentoring: [6,9] one-to-one [6,11] and group mentoring; [11] and established and internally developed programs. [9] Formal mentoring has structure, pre-set goals and timeframes, whilst informal mentoring is a mutually agreed mentor-protégé pairing. [6] One-to-one and group mentoring structures are self-explanatory; however, the former is costly, while the latter offers frequent meetings. [11] Established and internally developed mentoring programs are constructed according to a chosen theoretical framework. One is developed locally by smaller businesses, whilst the other is a structured, standardised and evidence-based programme utilised by larger organisations, [11,45] respectively.

The seven articles reviewed focused on a specific mentoring program. In the United States, NRP's [9,11] and the generational mentorship approach [13] are gaining popularity as forms of established mentorship. At the same time, transitional practice programs (TPP’s) are applied in China, [6] Australia and New Zealand, [19] Sweden, [5] and Canada. [44]

The mentoring models also differ, ranging from established programs like Versant NRP University Health System Consortium/American Association of Colleges and Nursing Program, [9,11] and Wisconsin NRP [9] grounded on Benner’s novice to expert model [16] and Duchsher’s transition theory. [28]

Formal and informal mentoring programs are offered separately in TPP. [6] At the same time, NRP delivers them jointly, with possible views of extending the mentoring relationship to informal, following the formal component. [9] Additionally, extended TPP is made available by the Canadian government of up to 6 years post-graduation of NGRN’s who require more transitional nursing role support. [44] Conversely, generational mentoring helps develop future mentors and is enriching to both mentor and mentee, as workplace generational diversity is acknowledged and utilised. [13]


Further exploration of mentor-mentee combinations reveals the practices of one-to-one mentoring, [6,11] a supportive relationship between senior and junior nurses. The novice-peer mentor-veteran mentor triad [13] facilitates symbiotic relationship learning. Here, experienced nurses learn lifework balancing skills from their mentees, while the latter supports honing clinical skills and decision-making.

Reviewing the latest available literature showed how dynamic mentoring approaches have emerged to accommodate changes in the healthcare environment and patient acuity. Firstly, mentoring is now seen as enjoyable; [13] distinctive from traditional mentoring views which portray mentoring as exclusive and intensive. [12] Communication between parties has transcended into text messaging, emailing, calling, updating social media sites, [6] and informal meetings over coffee or meals. [13]

Terminologies have also metamorphosed, paralleling the direction of mentoring. For instance, NGRN’s are also referred to as “advanced beginners”, reflecting the progression of skill development and knowledge building. [6] “Occupational stress” [6,46] and “reality shock” [6,47] are coined to describe anxious feelings due to overwhelming job demands, and realisation of discrepancies between theory and practice, respectively. [7,6]

There are gaps in the literature that require further exploration. Zhang, Qian [6] proposed mentorship-focused studies to have at least 60 participants to minimise bias and increase generalisability of results. Furthermore, they
suggested determining best practices for mentorship; exploring the qualitative views on the value of mentorship; comparing the feasibility of different mentorship types and alternatives; and determining the frequency of mentor contact to achieve the desired outcomes. [6] Mentors must set minimum educational standards, whilst mentees need their transitional phase needs identified and prioritised, so management and mentors can collaborate on establishing a framework that helps meet these goals. [6] A standardised protocol that indicates timeframes and milestones will be valuable in guiding the progression of availing precepting and mentoring support. A preceptor is applicable during intensive skill development, whilst a mentor is appropriate for broadening career horizons. [11] Lastly, the analysis of obtained information reveals a few flaws in the currently available literature. Firstly, a theoretical framework like Benner’s theory [27] may need content realignment to contemporary practice and setting, [9] as it contains outdated information that may be irrelevant to current nursing practice. For example, the description of a novice nurse’s tasks is knowing the normal parameters of vital signs to detect problems. [16,27] Today’s patients present with complex morbidities that may masquerade clinical signs presentation, deviating from what theory suggests. Healthcare has deviated into a globalised form, facing overwhelming demands whilst delivering preventative and patient-centred care. [48]

The interconnectedness between retention and turnover is not a reciprocal relationship. The same holds with precepting and mentoring. These terms are often transposed in the literature and assume reciprocity and provide no definition. The paucity of evidence-based practices presents to nurse managers and healthcare organisations a challenge and perpetuate the adjustment challenges confronting NGRN’s. This situation explains the decreased number of mentoring practices in place [13] and the increasing turnover rates of NGRN’s. Contemporary mentoring has assumed a less-formalised structure that requires substantial participant involvement. It incorporates a range of communication pathways ranging from text messaging to informal gatherings. Mentoring facilitates the holistic development of NGRN’s whilst assisting them in transitioning into professional practice. A novel mentoring method, called the generational approach, hones mentees and fosters future mentors. [13]

The literature differentiates preceptorship and mentoring. [13] The former could be utilised short-term, during the initial phases of skill honing. Transitioning into the latter happens once the NGRN has established a skill and knowledge base, given the long-term, holistic learning that is broader in scope. This situation parallels the analogy that preceptorship is imperative employment and mentoring develops the NGRN holistically after employment. [11]

The timeframe associated with mentoring is long-term. However, studies did not show a uniform duration of mentoring programs. They vary from 1 to 6 years after graduation, whereas the current studies focus on the first three years of practice [5, 6,9,11,13,19,44].

Mentoring effectiveness is portrayed in two avenues of cost-effectiveness and job satisfaction, derived by the organisation and NGRN’s, respectively. Cost-effectiveness or ROI is predominant until the end of the first year of mentorship; [13,46] correlating with plummeting retention rates at year two [9] and rising resignation and career changes at year three. [44] This situation necessitates the formulation of qualitative tools that would assist health managers, and key stakeholders explore the factors that contribute to such changes and generate mitigating strategies that can be effectively implemented towards the end of year one.

Job satisfaction reflects multi-faceted avenues including improved clinical competence [6], high care standards [13], congruence of practice and learning and consistent mentoring [13]. It contributes to job retention and turnover. [6, 9, 11, 13, 44] New studies show trending disconnection and ineptness of NGRN’s from 6 months to 1 year of undergoing mentoring, leading to lower job satisfaction. [9] Further exploration of factors causing these deviations is crucial, so mentors can look out for emerging changes and intervene immediately.

**DISCUSSION**

The literature review demonstrated three recurrent themes emerging from the studies:
1. The value of the informal structure of mentoring programs.
2. The duration of mentoring programs; and
3. The effectiveness of mentoring programs towards participants and organisations.

**Systematic Literature Review of The Effects Of Clinical Mentoring On New Graduate Registered Nurses’ Clinical Performance, Job Satisfaction And Job Retention**

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RECOMMENDATIONS/GAPS IN THE LITERATURE

This SLR has identified four gaps in the literature to guide future research endeavours that focus on mentoring.

1. The literature on mentorship is seminal and requires quantitative nor qualitative clinical performance indicators that measure NGRN competency before and after mentorship. These will serve as standardised benchmarks for nurse mentors, nurse managers, and healthcare organisations to use when deciding on implementing mentoring programs to NGRN’s.

2. There is no standardised structure that guides the best practice in mentoring programs and sparks a debate about program content rather than structure determining its effectiveness. [9] Another study argues that group mentoring, and more frequent meetings enhance the effectiveness of TP’s. [11] With the probable inception of indicator tools, [9] benchmarks and timeframes will provide evidence-based guidance regarding the content, duration, frequency, and structure of mentoring programs. [10] Content should reflect the learning needs and milestones of mentees. Exploring content being either standardised for generalised implementation or tailored according to individual learning plans could be beneficial. [10] Refinement of mentor-mentee pairings [13] will predetermine matches based on mutual characteristics and goals, or by the mentee’s choice.

3. Contemporary literature examines job satisfaction, retention-turnover, and clinical performance, but there have not been any large-scale studies reported in the literature. There is a need for a more rigorous, formal research into the effectiveness of mentoring programs, including cost-effectiveness.

4. The literature search revealed that there is mentorship-related research paucity in non-acute care settings like PHC. It is recommended that mixed methods research that explores the personal views of NGRNs regarding mentorship in community settings and develops a standardised duration of the mentorship program for PHC NGRNs. Since the pre-existing mentorship strategies to promote job satisfaction, competence, and job retention are dedicated to NGRNs working in acute care. These strategies may be deemed inapplicable to NGRNs in non-acute care settings.

The included studies came from the United States, [9, 11, 13] Canada, [44] Australia and New Zealand, [19] Sweden, [5] and China. [6] Studies from other countries did not meet inclusion criteria, contracting the pertinence of results. The writers recommend that a large-scale quantitative study that will increase the generalisability and applicability of results. A qualitative study can focus on contributing factors to NGRNs’ decisions related to their staying or leaving their position after the transitional period.

CONCLUSION

Mentoring is a novel and effective transitional approach for NGRNs compared to precepting contractual and time-bound conditions. Mentorship informality brings about long-term effects that transcend into the quality of professional competence and relationships. In general, clinical mentoring increases the NGRNs’ job satisfaction, retention, and clinical performance.

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