Intensive Care Unit Nurses' Perceived Empowerment, Caring, Job Satisfaction, and
Intent to Leave or Intent to Stay within Central Canadian Hospitals

by

Amanda Jacoby

A Thesis submitted to the Faculty of Graduate Studies of
The University of Manitoba

in partial fulfillment of the requirements of the degree of

MASTER OF NURSING

College of Nursing
University of Manitoba
Winnipeg

Copyright © 2016 by Amanda Jacoby

ABSTRACT

Intensive care unit nursing shortages are an ongoing issue within the Canadian healthcare system. Empowerment and caring have been identified as significant within the Healthy Workplace Environment research found in "Magnet Status" hospitals, or hospitals that were able to recruit and retain nurses amidst a major USA nursing shortage in the 1980s. The purpose of this study was to better understand the relationships among Manitoban intensive care unit nurses' perceived empowerment, caring, job satisfaction and intent to leave or stay.

An adapted version of the Conceptual Framework for Predicting Nurse Retention provided the link between intensive care unit nurses' perceived empowerment, caring, job satisfaction and intent to leave or stay. A cross sectional design utilized socio-demographic information: age, education, and years of experience as an intensive care unit nurse; the Conditions of Workplace Empowerment Questionnaire II; the Caring Efficacy Scale; a single item job satisfaction question; and a two item intent to leave and intent to stay question (followed by open-ended questions asking why) was distributed by the College of Registered Nurses of Manitoba to 630 nurses registered as critical care nurses in the province of Manitoba. Ethical approval was obtained from the Education Nursing Research Ethics Board at the University of Manitoba. Findings indicate the majority of intensive care unit nurses who participated in this study were satisfied with their job. Multivariate analyses indicated that job satisfaction was statistically significantly associated with intent to stay.

ACKNOWLEDGEMENTS

The researcher would like to extend her heartfelt gratitude and appreciation to the following persons who in one way or another have contributed in making this study possible.

- **Dr. Lorna Guse**, her research advisor, for the advice, guidance, and words of encouragement that provided benefit in the completion and success of this study.
- **Dr. Rashid Ahmed**, statistician for the Faculty of Nursing, for the support, time and effort in helping in the statistical analysis of this study.
- **Dr. Dauna Crooks, Dr. John Wiens** and **Beth Brunsden-Clark**, her committee members, for their time spent, constructive comments, suggestions and critiquing of this study.

DEDICATION

This thesis is dedicated to my husband, Duncan and our daughters, Anabelle, Sabrina, and Juliet. This study would not have been possible without their love, patience, and support.

TABLE OF CONTENTS

Abstract	
Acknowledgements	iii
Dedication	iv
List of Tables	x
List of Figures	xi
Chapter One: Statement of the Problem	1
Current Nurse Demographics in Canada	1
ICU Nurse Demographics in Canada	2
Caring and Empowerment and ICU Nursing Shortages	3
Conceptual Framework	6
Chapter Two: Conceptual Model and Literature Review	8
Conceptual Framework	8
Intent to Leave and Intent to Stay	10
Definition of Intent to Leave and Intent to Stay	10
Intent to Leave and Job Satisfaction Research	10
Summary	18
Intent to Leave and Empowerment Research	18

Summary	20
Intent to Stay Research	20
Intent to Leave and Intent to Stay Research within the ICU	21
Summary	23
Job Satisfaction.	23
Definition of Job Satisfaction.	23
Job Satisfaction and Empowerment Research	24
Job Satisfaction Research within the ICU	25
Summary	28
Empowerment	28
Definition of Empowerment	28
Empowerment Research within the ICU	31
Summary	33
Job Satisfaction, Intent to Leave and Empowerment Research	
within the ICU	34
Summary	36
Caring	36

Definition of Caring.	36
Caring and Empowerment Research	38
Caring Research within the ICU	38
Summary	42
Overall Summary	43
Chapter Three: Design and Measurement	45
Study Design and Sample	45
Measurements	47
Empowerment Questionnaire (Influencing Factor)	47
Caring Efficacy Scale (Influencing Factor)	50
Socio-Demographic Characteristics (Influencing Factor)	54
Job Satisfaction Question (Intermediary Factor)	54
Intent to Leave and Intent to Stay Question (Outcome)	55
Data Analysis Plan	56
Ethical Review.	57
Summary	57
Chapter Four: Data Analysis and Results	58

Data Analysis	58
Results	59
Socio-Demographic Factors (Influencing Factors)	59
Empowerment (Influencing Factor)	60
Caring (Influencing Factor)	69
Job Satisfaction (Intermediary Factor)	76
Thesis Research Objectives.	77
Objective #1 (Outcome)	77
Objective #2	82
Objectives #3 and #4	84
Conclusion	87
Chapter Five: Discussion	89
Discussion	89
Limitations	91
Practice Implications	93
Recommendations for Future Research	93
References	95

Intensive (Care Unit	Nurses'
-------------	-----------	---------

Appendix A	115
11	
Appendix B	116

LIST OF TABLES

Table 1: Comparison of Cronbach's Alpha Reliability Coefficients	60
Table 2: CWEQ II: Subscale 1	61
Table 3: CWEQ II: Subscale 2.	62
Table 4: CWEQ II: Subscale 3.	63
Table 5: CWEQ II: Subscale 4	64
Table 6: CWEQ II: Subscale 5.	65
Table 7: CWEQ II: Subscale 6	66
Table 8: CWEQ II: Global Empowerment Scale	68
Table 9: Caring Efficacy Scale	71
Table 10: Intent to Leave Reasons	79
Table 11: Intent to Stay Reasons	82
Table 12: Spearman Correlation Coefficients	84
Table 13: Model 1 and 2: Probability of Intent to Leave / Intent to Stay	86

LIST OF FIGURES

Figure 1: Conceptual Framework for Predicting Nurse Retention	6
Figure 2: Sawatzky and Enns' (2012) Conceptual Framework for Predicting Nurse Retention	n9
Figure 2.1: Rosabeth Kanter's (1977, 1993) Theory of Empowerment	30
Figure 2.2: Five Attributes of Caring (Brilowski & Wendler, 2005)	37
Figure 3: Conditions of Work Effectiveness Questionnaire II (Laschinger et al., 2001)	49
Figure 3.1: Caring Efficacy Scale (Coates, 1997)	52
Figure 3.2: Job Satisfaction Question.	55
Figure 3.3: Intent to Leave Question.	55
Figure 3.4: Intent to Stay Question	56

Chapter One: Statement of the Problem

Nursing is an essential service profession within the healthcare system. An increased requirement for nurses is anticipated as the proportion of older adults within the general population increases. Unfortunately since the late 1990s, there has been a history of nursing shortages. Stone, Larson, Mooney-Kane, Smolowitz, Lin, and Dick (2009) have suggested that the shortages of nurses are related to an aging workforce, pending retirements, problems with recruitment and retention, and more specifically difficulty in retaining new nursing graduates in the workplace. A viable and stable nursing workforce is needed to ensure that patients and families are provided the best possible healthcare. This chapter identifies nursing demographics, and specifically the intensive care unit (ICU) nursing demographics in Canada. Eight themes were identified within Healthy Workplace Environment research (Kramer & Schmalenberg, 2008). Of those, caring and empowerment were identified as possible stimuli to retain ICU nurses in Manitoba. The framework for the study, the Conceptual Framework for Predicting Nurse Retention (CFPNR), taken from the work of Sawatzky and Enns (2012) and Sawatzky, Enns, and Legare (2015) is introduced and includes research purpose and objectives.

Current Nurse Demographics in Canada

In Canada, nurses are regulated and licensed by separate colleges. There are: registered nurses (including nurse practitioners), licensed practical nurses (also called registered practical nurses), and registered psychiatric nurses (CIHI, 2015). Licensed practical nurses and registered psychiatric nurses have different educational requirements and scopes of practice in comparison to registered nurses. Only registered nurses work in Manitoba ICUs, and so this group was the focus of this study.

In 2013, 73% of all regulated nurses eligible to practice in Canada were registered nurses, and only 58% of those registered nurses worked full time (CIHI, 2015). In 1992 there were 824 registered nurses for every 100,000 Canadians. However by 2009 there were only 785 registered nurses (CIHI, 2013) for every 100,000 Canadians. Concerns have been expressed about the shortage of nurses and the issues of turnover, yet data to support effective policies for retention are lacking (O'Brien-Pallas, Tombin Murphy, Shamian, Li & Hayes, 2010). One consequence of the nursing shortage has been mandated overtime. In 2010, 21 million hours of overtime were reported, which is the equivalent to 11,400 full time positions, at a cost of \$891 million (Gormanns, Lasota, McCracken & Zitikyte, 2011). Clearly a larger workforce of registered nurses is needed.

ICU Nurse Demographics in Canada

ICUs, which are also referred to as critical care units, are environments that are dynamic, complex, and inherently stressful. In order to work in the ICU, additional training is required of registered nurses. The estimated cost to train a single Ontario critical care nurse ranged from \$14,000 to \$22,000 and this was dependent on duration of the program, tuition, and salary scale of the nurse (Official Languages Community Development Bureau, 2009). This study is situated in the province of Manitoba and the 24 week program (known as the Winnipeg Critical Care Nursing Education Program) offered in Winnipeg, Manitoba is a combination of classroom, lab work, and shifts mentored by experienced nurses from medical, surgical, intermediate, neonatal, and pediatric ICUs. There are costs and time requirements to become an ICU nurse, but additional training ensures that complex patient care is provided by well-prepared nurses.

O'Brien-Pallas et al. (2010) surveyed 41 hospitals across 10 provinces and reported the highest turnover rate comes from the ICU (26.7%). In Manitoba, the largest center is Winnipeg with a population of 718,400 in 2015 (City of Winnipeg, 2016). As of September 2014, the Winnipeg Regional Health Authority had over 31 full time permanent vacancies in 13 ICUs across six hospitals within the city. The ICU nurse to patient ratio in an ICU is between 1:1 and 1:2 and this ratio depends on both the knowledge and skill set of the nurses and the acuity of the patients. ICU nurses must deal with increased patient care complexity, sophisticated technology, and declining resources (The National Union of Taiwan Nurses Association, 2006; Lai et al., 2008).

Caring and Empowerment and ICU Nursing Shortages

In 2008, Kramer and Schmalenberg identified the qualities of a Healthy Workplace Environment. A Healthy Workplace Environment was derived from a groundbreaking study conducted in 1982 by the American Association of Nurses (AAN) who coined the term "Magnet Status" hospitals (Kramer & Schmalenberg, 2008). Magnet Status hospitals were able to recruit and retain nurses during a major nursing shortage in the USA. Kramer and Schmalenberg (2008) developed a 37 item questionnaire that expanded upon the Nursing Work Index (developed in the 1982 study) and identified eight themes essential to quality care; calling them 'Essentials of Magnetism within a Healthy Workplace Environment'. Together these eight themes, known as a Healthy Workplace Environment have been empirically linked to increase recruitment, retention, and job satisfaction among nurses (Kramer & Schmalenberg, 2008). These eight themes are: 1. working with other nurses who are clinically competent; 2. having good nurse-physician relationships and communication; 3. promoting nurse autonomy and accountability; 4. supportive

nurse manager and supervisor; 5. allowing control over nursing practice and practice environment; 6. having support for education; 7. staffing adequately; and 8. having concern for the patient. Within the Healthy Workplace Environment research two concepts have impacted the current nursing shortage: empowerment and caring. The purpose of this study was to explore the relationships among caring, empowerment, job satisfaction, socio-demographic factors, and the intent to leave or intent to stay amongst ICU nurses in Manitoba.

Empowerment is identified on a continuum and is universally found within all individuals in their workplace environment (Spreitzer, 1995). Empowerment derives from two sources: an organizational atmosphere and a psychological belief. Empowerment provides resources through opportunity, support and information; and promotes an autonomous ability to set and act on goals and objectives within the scope of the nurses' values and beliefs bounded by legal scope of practice. Expanding upon the work of Laschinger et al. (2001) and for this purpose of this study empowerment was defined as a combination of organizational and psychological factors. An individual's accessibility to resources results in higher motivation to succeed within their organization. Research has demonstrated a link between empowerment and six of the previously identified Magnet Hospital themes as follows: 2. having good nurse-physician relationships and communication; 3. promoting nurse autonomy and accountability; 4. having a supportive nurse manager and supervisor; 5. allowing nurses' control over nursing practice and practice environment; 7. staffing adequately; and 8. having concern for the patient (Aiken, Clarke, Sloane, Sochalski, & Silber, 2002; Aiken, Smith, & Lake, 1994; Armstrong & Laschinger, 2006; Armstrong, Laschinger, & Wong, 2009; Laschinger, Almost, & Tuer-Hodes, 2003).

Intensive Care Unit Nurses' 5

The concept of caring is comprehensive and truly defines nursing. Caring is viewed on a philosophical level as being responsible for providing caring connections with others (Watson, 2005). Expanding upon Watson's (2005) work and for the purpose of this study caring was defined as a complex phenomenon that occurs between two people and is meant to be therapeutic. Caring has a philosophical basis, but requires a good deal of self reflection, a thoughtful identification of issues and context, and selection of appropriate behavior and all of it stems from an concern for others before one acts on it. Action begets reflection and so on as one learns to care professionally. The concept of caring is linked to the eighth Essential of Magnetism: having concern for the patient. ICU nurses provide care to very ill patients, some of whom may not be conscious or aware of the care being provided. The caring connection between ICU nurses and their patients is somewhat unique in these circumstances. ICU nurses rely on verbal and nonverbal communication provided by the patients and their loved ones during care. The patient's labile condition can challenge the ICU nurses' ability to pick up on subtle cues that indicate a rapid decline.

Increased access to a caring environment (Amendolair, 2012) and an empowering atmosphere enhances job satisfaction (Laschinger, Nosko, Wilk, & Finegan, 2014; Wong & Laschinger, 2012). The correlation between nurses' job satisfaction and intent to leave has been explored extensively. The nursing research, outlined later on in chapter two, suggests the more satisfied nurses were with their jobs the less likely they were to leave their current position (Baernholdt & Mark, 2009; Doran, Duffield, Rizk, Nahm, & Chu, 2014; Faller, Gates, Georges, & Connelly, 2011; Ganz & Toren, 2014; Sawatzky & Enns, 2012; Sawatzky et al., 2015; Stewart et al., 2011).

Intensive Care Unit Nurses' 6

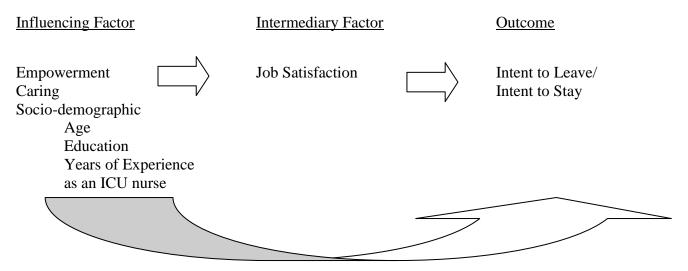
Conceptual Framework

This study was conducted under a modified version of the Conceptual Framework for Predicting Nurse Retention (CFPNR). The CFPNR is based upon previous empirical research on nurse retention (Larabee, Tanney, Ostrow, Withrow, Hobbs, & Burant, 2003; O'Brien-Pallas et al., 2001; Price & Mueller, 1981; Tzeng, 2002). Most recently published research by Sawatzky and Enns (2012) and Sawatzky et al. (2015) has informed this study. The premise of the CFPNR is that "influencing factors" such as organizational climate may be related to the "intermediary factors" such as job satisfaction, and both the influencing factors and intermediary factors may influence the primary outcome, that is intent to leave or intent to stay (Sawatzky & Enns, 2012; Sawatzky et al., 2015).

See Figure 1 for the complete CFPNR.

Figure 1

Conceptual Framework for Predicting Nurse Retention



More information on the conceptual framework is provided in Chapter Two.

Although this study was informed by Sawatzky and Enns' (2012) framework, the influencing and intermediary factors are not the same. The purpose of this study was to explore the relationships among caring, empowerment, job satisfaction, socio-demographic factors, and the intent to leave or intent to stay amongst ICU nurses in Manitoba. There were four research objectives:

- 1. To compare the reasons why ICU nurses intend to leave or intend to stay,
- 2. To explore the relationships among empowerment, caring, socio demographic factors, and job satisfaction,
- 3. To examine the relationship between job satisfaction and intent to leave or intent to stay, and
- 4. To examine the overall relationships among empowerment, caring, sociodemographic factors, job satisfaction, and intent to leave or intent to stay.

Chapter Two: Conceptual Model and Literature Review

While the relationships among empowerment, caring, job satisfaction, and intent to leave or intent to stay have been studied within nursing generally, less attention has focused on these relationships for ICU nurses. Throughout Chapter Two, the Conceptual Framework for Predicting Nurse Retention (CFPNR) is described, and linked to the objectives of this study. The literature on empowerment, caring, job satisfaction, intent to leave and intent to stay is reviewed and analyzed in relation to this study.

The CFPNR model used for this study posits an intermediary relationship (job satisfaction) between influencing factors (empowerment, caring, and socio-demographic factors) and the outcome of intent to leave or intent to stay. The objectives are guided by the model.

- 1. To compare the reasons why ICU nurses intend to leave or intend to stay.
- 2. To explore the relationships among empowerment, caring, socio demographic factors, and job satisfaction.
- 3. To examine the relationship between job satisfaction and intent to leave or intent to stay.
- 4. To examine the overall relationships among empowerment, caring, socio-demographic factors, job satisfaction, and intent to leave or intent to stay.

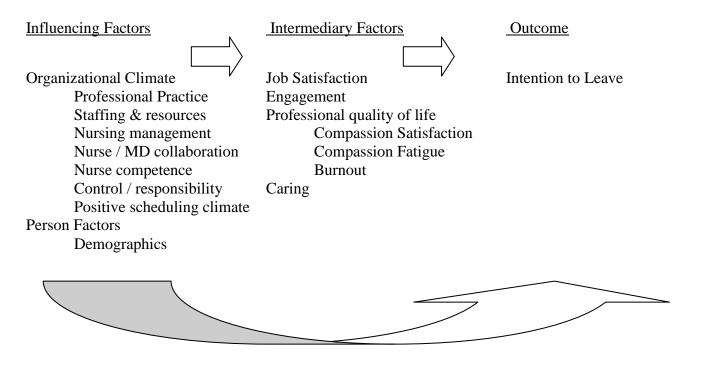
Conceptual Framework

This study has been informed by the work of Sawatzky and Enns, (2012) who developed the CFPNR to identify key factors that affect nurse's intent to leave. According to Sawatsky and Enns (2012), "the influencing factors may predict intention to leave either directly or indirectly

by their impact on the intermediary factors". Sawatzky and Enn's (2012) stated "intermediary factors may intercede with the influencing factors in the decision to stay or leave one's current job, or they may have a direct impact on the decision to stay or leave one's current position". The goal of the CFPNR is to identify retention strategies tailored to each type of nursing practice. Sawatzky and Enns' (2012) CFPNR is described in Figure 2.

Figure 2

Sawatzky and Enns' (2012) Conceptual Framework for Predicting Nurse Retention



Sawatzky and Enns' (2012) CFPNR is similar to this study including the intermediary factor of job satisfaction and the outcome of intent to leave. However, with this study, the influencing factors are different. Empowerment and caring are identified as influencing factors within this study. ICU nursing is dependent on the resources available to empower the nurse

providing care, and fosters an environment where a more intense bond between the patient and nurse may develop.

Intent to Leave and Intent to Stay

Definition of Intent to Leave and Intent to Stay

Intent to leave is generally viewed as the movement of staff out of an organization, or repositioning within the same organization. A groundbreaking study by Fishbein & Ajzen (1975) sought to explain factors that predict actual turnover, suggesting that behavioral intention is the primary antecedent to actual behavior. Both the behavioral and the cognitive processes of turnover intentions are important predictors of actual turnover. Coomber and Barriball (2007) found intent to leave is considered an outcome of affective variables, such as job satisfaction; whereas actual turnover may be meditated by other variables such as age or tenure. A total of 19 studies discussing intent to leave and three studies discussing intent to stay were reviewed for this study. Both intent to leave and intent to stay were predominately tested utilizing a dichotomous measure. Intent to stay research within nursing is quite limited, and in two of the three articles reviewed no definition for intent to stay was provided. For the purpose of this study intent to stay will be defined as a desire to remain working within the ICU.

Intent to Leave and Job Satisfaction Research

In 2005 a study on critical care nursing was conducted in Ontario (Fisher, Baumann, Hunsberger, Blythe, & Fitzpatrick, 2007). This study attempted to identify how current nursing standards of practice in each program affected job satisfaction and intent to leave at the 12 provincially sited ICUs. The Critical Care Steering Committee formed the Ontario Critical Care

11

Expert Panel which recognized that successful recruitment and retention of ICU nurses is essential to provide quality patient care. The task groups brought together critical care nurse leaders from across the 12 ICU's in the province to conduct a survey to determine the status and adherence to nursing standards. The standards of practice included: 1. incorporating professional behavior and ethics into practice; 2. providing opportunities to maintain nursing competency in critical care; 3. understanding the importance of critical care unit structure and interdisciplinary teamwork in relation to risk management; 4. providing the ability to implement caring communication in therapeutic and professional relationships; and 5. providing the ability to incorporate knowledge, clinical skills integration and critical thinking.

Findings from the study concluded that ICU nurses appreciated the comprehensiveness of the standards and described them as all-encompassing. A particular strength was the inclusion of competencies such as "professional behavior / ethics", "continuing competence" and "research" which emphasized the importance of developing rather than maintaining skills outside the clinical base. ICU nurses noted the importance of these skills in critical care practice and how they would continue to challenge nurses to think outside their scope. The ICU nurses noted some limitations in the standards. The standards did not explain how the various structures available within the healthcare system are able to provide opportunities for continuing education and competency.

Fisher et al. (2007) also asked ICU nurses what would keep them in their jobs and increase job satisfaction. ICU nurses responded that the things that needed to be done included enhancing an ICU nurses' role in: 1. implementing patient safety content; 2. planning for disaster and pandemic emergency preparedness; 3. emphasizing the criteria for both the patient and

patients' family as the patient; 4. providing clinical leadership opportunities; and 5. utilizing clinical and health services research.

12

Fisher et al. (2007) identified nurse's perceived challenges to job satisfaction that included: 1. nurses' inability to take time off for educational purposes due to limited financial support; 2. limited access to the computer / online educational systems that are required for nurses to take online courses; 3. limited replacement for nurses during educational leaves of absence; 4. nurses' refusal to upgrade to meet the new standards of practice; 5. new graduates lacking the experience needed to work in ICUs; and 6. current shortage of mentors / preceptors to bridge the gap between theory and practice in the clinical teaching environment. Fisher et al's., (2007) findings suggested that job satisfaction had an inverse relationship with intent to leave. The findings also indicated that ICU nurses wanted to be educationally challenged but lacked the financial support and appropriate mentors to facilitate ongoing educational opportunities.

Stewart et al. (2011) surveyed rural Canadian nurses using a questionnaire based upon empirical and conceptual issues identified in previous research in Australia, Canada, and the USA. They also used a single item intent to leave question "Do you plan to leave your present nursing position?" The results reported that nurses were more likely to have had intentions to leave their nursing position within the next 12 months if they were male, reported higher perceived stress, did not have dependent children or relatives, had higher education, were employed by their primary agency for a shorter time, had greater dissatisfaction with job scheduling, had lower satisfaction with their autonomy in the workplace, were required to be on call, performed advanced decisions or practice, and worked in remote settings. These findings

13

identified additional elements that impacted intent to leave. In comparison to Fisher et al's. (2007) study, Stewart et al. (2011) reported that intent to leave had an inverse relationship to more years of experience, lower number of dependents, increased education and gender (male).

Sawatzky and Enns (2012) surveyed emergency room nurses throughout Manitoba utilizing the Perceived Nurse Working Environment scale (Choi, Bakken, Larson, Du, & Stone, 2004), a single item Likert scale job satisfaction scale (1= not at all satisfied to 5= very satisfied), the Engagement Composite Questionnaire (Hewitt Associates, 2008), the Professional Quality of Life Scale (Stamm, 2005), and Price and Mueller's (1981) single item "Do you intend to leave your current position in the coming year?" and reported predictors of nurse perceived intentions to leave included older age, lower compassion satisfaction (which is the pleasure you derive from doing well at work), higher professional practice scores, and lower income.

In a later study, Sawatzky et al. (2015) surveyed critical care (CC) nurses throughout Manitoba using the Perceived Nurse Working Environment scale (Choi, et al., 2004), McCloskey Mueller Satisfaction Scale (Mueller & McCloskey, 1990), a single item question related to autonomy, the Nursing Expertise Self-Report Scale (Garland, 1996), personal factors, a single item Likert scale job satisfaction scale (1= not at all satisfied to 5= very satisfied), the Engagement Composite Questionnaire (Hewitt Associates, 2008), the Professional Quality of Life Scale (Stamm, 2005), and Price and Mueller's (1981) single item "Do you intend to leave your current position in the coming year?" Caring was measured through compassion fatigue, compassion satisfaction, and a qualitative component. Sawatzky et al. (2015) reported organizational climate factors: professional practice, supportive management, good physician / nurse collaboration, nurse competence, control / responsibility, autonomy, engagement,

compassion satisfaction had a statistically significant inverse relationship with intent to leave both nursing and CC. Compassion fatigue and burnout had a statistically significant direct correlation with intent to leave nursing and CC, which is similar to the findings reported by Sawatzky and Enns' 2012 study.

Doran et al. (2014) used the Practice Environment Scale of the Nursing Work Index (Lake, 2002), the four item Likert scale job satisfaction questionnaire (Laschinger & Havens, 1996), a single item "Do you intend to leave your current job within the next year?" Doran et al. (2014) reported advanced practice nurses (nurses with postgraduate specialist education) in Ontario had higher job satisfaction but it did not reflect in their intent to leave in comparison to staff nurses who reported lower job satisfaction and higher intent to leave. These findings were interesting as the job satisfaction score did not greatly impact the desired intent to leave between the two groups, which contradicts with Coomber and Barriball (2007) and Sawatsky and Enns (2012) who reported job dissatisfaction was the primary predictor of intent to leave.

Han, Trinkoff, and Gurses (2015) utilized the Job Content Questionnaire (Karasek, 1985), 12 items assessing physical demands (Trinkoff, Lipscomb, Geiger-Brown, Storr, & Brady, 2003), three items from the Nursing Work Index-Revised (Lake, 2002), six items from Job Content Questionnaire (Karasek, 1985), single item work schedule measure, single item week burden measure, single item job satisfaction question, and a single item intent to leave question amongst 1641 registered nurses in Illinois and North Carolina. Han et al. (2015) reported 75% of nurses were satisfied with their job and 90% did not intend to leave their position. Of those who intended to leave, most were male and had higher education. These findings are similar to the Stewart et al.'s (2011) findings that identified male nurses and nurses

with higher education reported greater job dissatisfaction. Han et al. (2015) also reported a direct association between job dissatisfaction and nurses in jobs with high psychological demands, low autonomy, worked long hours, and limited support from supervisors or peers.

Baernholdt and Mark (2009) surveyed rural and urban medical/ surgical units across the USA utilizing Zohar's (1980) Safety Climate scale; Minick and Harvey's (2003) Expertise scale; Minick and Harvey's (2003) Commitment to Care scale; Mark and Hagenmueller (1994) Decentralization scale; Gerber's (1990) Autonomy scale; Gittell, Fairfield, and Beirbaum's (2000) Relational Coordination scale; and Hinshaw and Atwood's (1984) Job Satisfaction scale. Baernholdt and Mark (2009) based turnover rates of nurses on actual termination that occurred during a six month period. They reported rural / urban location was not significantly associated with nurse job satisfaction or actual turnover rates. Instead, availability of support services, commitment to care (how responsible the nurses felt to provide care) and autonomy had a direct association with nurses' job satisfaction, and a direct association was reported between increased work complexity, increased unit vacancy rates, and increased intent to leave. It is interesting to note this study did not report an association between job satisfaction and intent to leave.

Faller et al. (2011) surveyed travel nurses employed by a large healthcare staffing company using the Copenhagen Burnout Inventory (Kristensen, Borritz, Villadsen, & Christensen, 2005), the Job Satisfaction statement "Overall I am satisfied with my current job", nurse assessed quality of care statement "On the last shift you worked, was the quality of patient care on the unit (a) below the standard of care, (b) adequate, (c) above the standard of care", and a three item intent to leave questionnaire (Tsui & O`Reilly, 1989) and reported a direct association with increased job satisfaction and hospital held Magnet Status designation.

However, there was an inverse relationship between job satisfaction and nurses who were specialized in critical care. They also found a direct association was established between younger nurses' and nurse perceived levels of stress associated with changing jobs. Similar to Baernholdt and Mark (2009), this study also did not report an association between job satisfaction and intent to leave.

Ganz and Toren, (2014) used the unpublished Job Satisfaction Questionnaire of the Hadasseh Medical Organization and the question "I intend to leave my workplace in the next 12 months" measured on a scale 1 (do not intend at all) to 5 (definitely intend) and found most respondents were Jewish, married women born in Israel with an average experience of 22 years, and worked in either general ICUs or medicine units. This study's significant findings include overall high levels of job satisfaction (mean 3.8/5) and low levels of intent to leave (8.8%).

Roulin, Mayor, and Bangerter (2014) surveyed French speaking nurses working in Switzerland utilizing the Extended Satisfaction with Life Scale (Alfonso, Allison, Rader, & Gorman, 1996), the Survey Work-Home Interaction-Nijmegen (Geurts, 2000), the Maslach Burnout Inventory (Maslach & Jackson, 1981), the Team Diagnostic Survey (Wageman, Hackman, & Lehman, 2005), the Revised Nursing Work Index (Aiken & Patrician, 2000), and the intent to leave question "How often do you think about leaving your current position?" and reported both group cohesion and unit effectiveness were directly associated to job satisfaction, and had an inverse relationship to intent to leave.

Tao, Ellenbecker, Wang, & Lee (2015) used a qualitative study in four Shanghai ICU's and found three themes of job dissatisfaction and high intent to leave and three themes of job satisfaction and low intent to leave. The three themes of job dissatisfaction and high intent to

leave were stress from excessive workload demands, stress from ICU work environment, and lack of respect and recognition. Three themes of job satisfaction and low intent to leave were the positive relationships with co-workers, internal recognition of work and accomplishments, and professional opportunities to strengthen skills. Roulin et al. (2014) also reported a direct association between unit effectiveness, work complexity, and perceived job satisfaction.

17

Liu, While, Li, & Ye (2013) used the Mueller-McCloskey Satisfaction Scale (Mueller & McCloskey, 1990), the Maslach Burnout Inventory (Malasch & Jackson, 1986), the Practice Environment Scale of the Nursing Work Index (Lake, 2002), the Simplified Coping Style Questionnaire (Jie, 1998), and the Social Support Rating Scale (Xiao, 1994) on 215 nurses working in 12 cardiac critical care units in Shanghai. Most of the respondents (58%) were satisfied with their job. A direct association between praise or recognition received by coworkers, positive relationship with co-workers, less than 5 years or between 10-19 years of work experience and job satisfaction was reported within this study. Job dissatisfaction was directly associated with the extrinsic rewards provided, limited professional opportunities, limited control or responsibility, poor family / work balance, poor scheduling, and negative interactions. A high percentage (80%) of respondents reported low levels of personal accomplishment, and high levels of emotional exhaustion (52%). It is interesting to note, that over 80% of respondents did report a positive practice environment, and this is likely due to their reported positive relationships with managers, good quality of care, and good nurse-physician relations. It is also statistically significant to report that despite 28% of respondents reporting their intent to stay, and 12% of respondents intending to leave, the majority (approximately 60%) did not report their intention to stay or leave. No association between job satisfaction and intent to leave was reported.

Summary

It is interesting to note that although job satisfaction and intent to leave were researched in all the studies mentioned above, not all studies reported an association between job satisfaction and intent to leave. The majority of the research reported that job satisfaction had an inverse relationship with intent to leave (Fisher et al., 2007; Stewart et al., 2011; Ganz & Toren, 2014. However, three additional studies did not report a correlation between job satisfaction and intent to leave (Baernholdt & Mark, 2009; Faller et al., 2011; Liu et al., 2013). This suggests a presumed inverse correlation between job satisfaction and intent to leave existed.

Intent to Leave and Empowerment Research

Zurmehly, Martin, and Fitzpatrick (2009) used a web based survey to collect data from Western Ohio nurses that was comprised of questions from the CWEQ-II (Laschinger et al., 2001), four items from the RN Vermont Intent to Leave Survey (Rambur, Palumbo, McIntosh & Mongeon, 2003), a single item question rating job satisfaction, and five intent to leave questions adopted from McCarthy's (2002) study. Zurmehly et al. (2009) reported nurses had an inverse relationship between intent to leave and empowerment. Nurses with high intention to leave their current position reported organizational factors such as poor relationships with supervisors or management, job stress, poor co-worker relations, decreased salary benefits, and poor job assignment. Nurses between 50 and 60 years of age and nurses with baccalaureate degrees or higher reported an inverse relationship with intent to leave and perceived empowerment. It seems likely that older or more experienced nurses feel committed to their position and to the organization. This is important because these older nurses are essential to support a culture that nurtures new nurses.

Hauck, Griffin, and Fitzpatrick (2011) reported an inverse relationship between North Eastern USA ICU nurse's perception of access to workplace empowerment structures and their stated intent to leave their current position when utilizing the CWEQ II (Laschinger et al., 2001) and the Anticipated Turnover Scale (Hinshaw, Atwood, Gerber, & Erickson, 1985). Hauck et al. (2011) reported perceived empowerment had a positive correlation to autonomy, job satisfaction, organizational commitment, and an inverse relationship with intent to leave. This fits with Zurmehly et al. (2009) who reported an inverse relationship between intent to leave and perceived empowerment.

Oyeleye, Hanson, O'Connor, and Dunn (2013) surveyed acute care Midwest USA nurses using Malasch's Burnout Inventory scale (Maslach & Jackson, 1981), the Uncivil Workplace Behaviours questionnaire (Martin & Hine, 2005), the Workplace Incivility Scale (Cortina & Magley, 2009), a four item turnover intention scale, and Spreitzer's (1995) Psychological Empowerment Scale. Oyeleye et al. (2013) reported statistically significant relationships between stress and incivility (disrespect within the workplace), stress and burnout, burnout and incivility, and burnout and turnover intention. Turnover intention and incivility were significantly directly related, but psychological empowerment scores did not correlate with any of the variables tested. Overall, turnover intention was found to be low, and was directly associated to incivility and burnout.

Fitzpatrick, Campo, and Gacki-Smith (2014) used a web based survey of nurses with Emergency Nurse Association membership asking the nurses their current type of Board of Certification for Emergency Nursing (BCEN), the CWEQ-II (Laschinger et al., 2001), the Anticipated Turnover Scale (Hinshaw et al., 1985), and four items specific to their intent to

leave. The results reported no significant difference between gender and BCEN certified nurses and their intent to leave their position and / or nursing. BCEN certified nurse's had higher informal power scores compared to those who did not have BCEN certification. Female nurses scored significantly higher on the empowerment subscale of opportunity.

Summary

Overall, the majority of the research reported an inverse relationship between empowerment and intention to leave (Zurmehly et al., 2009; Hauck et al., 2001). However three studies did not report a relationship between empowerment and intent to leave (Zurmehly et al., 2009; Oyeleye et al., 2013 & Fitzpatrick et al., 2014). These relationships would have been helpful in understanding if and how empowerment affected nurse's intent to leave. Job stress, burnout, and poor co-worker relationships were directly associated to turnover intentions amongst ICU nurses (Oyeleye et al., 2013; Zurmehly et al., 2009; Tao et al., 2015; Faller et al., 2011). A direct association was established among older age, higher education, autonomy, job satisfaction, increased organizational commitment, female gender and empowerment (Ganz & Toren, 2014; Doran et al., 2014; Stewart et al., 2011). To date, there is no research solely on intent to stay and empowerment.

Intent to Stay Research

Nowrouzi et al. (2016) used single item intent to stay question to survey 459 nurses working in all specialties across North Eastern Ontario, Canada. Nowrouzi et al. (2016) reported nurses between 37 and 48 years were almost three times as likely to stay in their current position. Significant factors in intent to stay include working less than 31 hours per week, and working

between zero and one hour of overtime per week. No definition of intent to stay was provided within this research. This is unfortunate as research exploring intent to stay within nursing is limited.

Intent to Leave and Intent to Stay Research within the ICU

Research reports multiple reasons ICU nurses intend to leave their current positions.

Stone et al. (2009) used a single report item "Do you plan to leave your current position in the coming year?" and reported over 17% of US ICU nurses indicated "yes". Reasons for ICU nurse stated intent to leave included working conditions (52%), positive career move (22%), personal or family reasons (11%), retirement (3%), and no reason given (12%).

Campbell (2013) used a nine item intent to stay instrument, the JAREL Spiritual Wellbeing scale (French, Lenton, Walters, & Eyles, 2000), and a 57 item expanded nursing stress scale (Hungelmann, Kenkel-Rossi, Klassen, & Stollenwerk, 1996) amongst 80 Ohio cardiovascular, surgical and medical ICU nurses. Intent to stay was defined as intent to stay working in the ICU, and the study reported a neutral response to the intent to stay questions. Campbell (2013) reported no correlation between intent to stay and stress or spirituality.

Stone, Mooney-Kane, Larson, Pastor, Zwaziger, and Dick (2006) reported 15% of US ICU nurses indicated intent to leave within the year. Based on Choi et al.'s (2004) Perceived Nurse Work Environment and the single item "Do you plan to leave your current position in the coming year?" strong evidence reports that occupational climate (organizational features such as norms and selecting leadership) and the labor market have significant roles in determining intent

to leave. Stone et al. (2009) also reported that poor working conditions were correlated to intent to leave.

Blake, Leach, Robbins, Pike, and Needleman (2013) surveyed 35 PICU nurses across the USA and reported a statistically significant relationship between authentic leadership (open and honest leaders) and perceived intentions to leave when using the Practice Environment Scale of the Nursing Work Index Revised (PES-NWIR) (Aiken & Patrician, 2000) and the single item intent to leave question "Do you intend to leave your job in the next six months?" The hospital variables: nursing hours per patient day for each unit (HPPD), Magnet Status designation, nurse union representation, and the manager's responsibility for more than one unit reported no statistically significant association with intentions to leave among PICU nurses. However, years of experience as a PICU nurse had a statistically significant inverse relationship with intention to leave. This is interesting as compared to Nowrouzi et al.'s (2015) research, intent to stay was also directly associated to less nursing hours and more years of experience.

Lai et al. (2007) used a researcher designed, self-administered paper and pencil questionnaire and reported that 48.5% of 130 eastern Taiwan ICU nurses had an intention to leave their current job, and intent to leave the nursing profession. Further analysis indicated that surgical ICU nurses were significantly more likely to intend to leave their jobs compared with medical ICU nurses. ICU nurses who intended to leave had identified poorer sleep quality, more depression and poorer health status. Lai et al. (2007) speculated that low levels of commitment to their job and high levels of burnout caused a high percentage of those intending to leave. These findings are similar to Oyeleye et al. (2013) who also reported a direct association between burnout and intent to leave.

23

Van Dam, Meewis, and van der Heijden, (2012) used six items of Van Dam's (2008) turnover intention scale and reported 30% of the ICU nurses had intentions to leave. These findings are lower than Lai et al.'s (2007) research noted above. Van Dam et al. (2012) reported ICU nurse's inability to deal with night shifts, lack of opportunity, and lowered motivation were directly associated with turnover intention. ICU nurses who reported a supportive work environment were less likely to report intention to leave. These findings are similar to Blake et al. (2013) who also reported helpful leadership had an inverse relationship with intent to leave.

Summary

Overall throughout the research, ICU nurses' perceived intent to stay and intent to leave were assessed by utilizing single item questions. Reported lack of support, poor work atmosphere, limited work experience, and poor health was directly associated to ICU nurse's intent to leave (Lai et al., 2007; Blake et al., 2013; Stone et al., 2009). Intent to stay was directly associated to hours worked per week (around 31 hours), and limited overtime (zero to one) (Nowrouzi et al., 2016).

Job Satisfaction

Definition of Job Satisfaction

In 1911, Frederick Taylor examined ways to measure work and this inspired future research about job satisfaction (Castaneda & Scanlan, 2014). In 1934, Uhrbrock was one of the first psychologists to test job satisfaction through attitude measurement techniques assessing factory worker attitudes comparing both the nature of the job to perceived relationships with coworkers and supervisors (Latham & Budworth, 2007). Job satisfaction is a complex phenomenon

with several definitions. Job satisfaction according to Hayes, Bonner, and Pryor (2010) is defined as intrapersonal impacted by factors such as experience, education and age; interpersonal impacted by factors such as autonomy, co-worker / patient interactions and relationships; or extra-personal impacted by factors such as workload, organizational structure and salary. For the purpose of this study, job satisfaction was defined as a personal reaction to an organization based on relationships, opportunities, and responsibilities.

Job Satisfaction and Empowerment Research

Nurse empowerment has been linked to many job related and organizational outcomes such as job satisfaction. Utilizing both the CWEQ II (Laschinger et al., 2001) and the six item global job satisfaction survey (Quinn & Shepard, 1974), Wong and Laschinger (2012) reported a direct association between authentic leadership and job satisfaction for acute care nurses working in Ontario with an average age of 43.4 years and 18.9 years of experience.

Laschinger et al. (2014) surveyed Ontario nurses in medical-surgical and critical care units using the CWEQ-II (Laschinger et al., 2001), Lake's Practice Environment Scale (Lake, 2002), seven items from Shortell's Culture Scale (Shortell, Rousseau, Gillies, Devers & Simons, 1991), Judge's Core Self-evaluation scale (Judge, Erez, Bono, & Thoresen, 2003), Spreitzer's (1995) Psychological Empowerment Scale, and a four item measure of job satisfaction adapted from Hackman and Oldman's (1975) Job Diagnostic Survey and reported structural empowerment had a positive correlation to unit support for professional practice and unit level effectiveness. Judge's Core Self-evaluation scale which measured self-esteem, generalized self-efficacy, emotional stability, and locus of control had a significant positive association to nurse perceived job satisfaction. Laschinger et al. (2014) utilized the CWEQ II (Laschinger et al.,

2001) and reported a direct association between empowerment and nurse perceived job satisfaction. It is interesting to note that Wong and Laschinger's (2012) study was able to link authentic leadership to both empowerment and job satisfaction but did not establish a correlation between job satisfaction and empowerment. One may appreciate knowing if such a link exists between empowerment (i.e. having the resources and support) and job satisfaction. Although Laschinger et al. (2014) did establish a direct association between empowerment and job satisfaction; they did not analyze the relationship between self-esteem, generalized self-efficacy, emotional stability, and locus of control with empowerment.

Job Satisfaction Research within the ICU

Research has found several factors that affect job satisfaction amongst ICU nurses. Penz, Stewart, D'Arcy, and Morgan, (2008) reported that while age did not predict job satisfaction in rural Canadian ICUs, (female) gender did have a direct association to job satisfaction. Using the Index of Work Satisfaction scale (Stamps, 1997), this study also reported it was important to have available, maintained, up to date equipment and supplies to enhance perceptions of job satisfaction in rural ICUs. Satisfactions with their home community and less extensive workloads were also significant predictors of job satisfaction for rural ICU nurses.

Wu, Oliffe, Bungay, and Johnson (2014) utilized an interpretive descriptive method and reported that recognition of performance, thank-you cards, letters, hugs, cookies, gifts, mentions in patient's obituaries, and both verbal and nonverbal expressions of appreciation were directly associated to job satisfaction amongst male nurses working in British Columbian ICUs.

In Western Canadian PICU's, Mahon (2014) utilized Carspecken's (1996) five stages for critical qualitative research and identified four themes essential to nurse perceived job satisfaction. The first theme "trust and communication" referred to trusting nurse colleagues' ability to look after a patient and communicating with the use of feelings as well as medical facts. The second theme "entering the inner sanctum and recognition" was described as becoming an expert PICU nurse and this was associated with retaining PICU nurses. The third theme "education and power" referred to achieving educational milestones. The fourth and final theme "care of the dying child" stated that while death is distressing in its entirety, the support provided to family was one of the more satisfying components of the job.

Haut et al. (2006) created a 10 question five point Likert scale questionnaire on job satisfaction for surgical ICU nurses working in a Pennsylvania hospital. Haut et al. (2006) reported the constant presence of dedicated intensivists improved job satisfaction through better nurse-physician interactions and consistent team approach to care. This study also reported an inverse relationship between perceived ICU nurse's job satisfaction and employee absenteeism in a 'nurse managed special care unit' that emphasized shared governance (collaboration) and nurse autonomy.

Li and Lambert (2008a) found Chinese ICU nurses identified workload and uncertainty about treatment as negative predictors of job satisfaction. Utilizing the Demographic Data Questionnaire, the Nursing Stress Scale (Gray-Toft & Anderson, 1981), the Brief Cope questionnaire (Carver, 1997) and the Job Satisfaction Survey (Spector, 1997), and years of experience in nursing, behavioral disengagement and positive reframing (both behavioural disengagement and positive reframing are identified by Carver's Brief Cope questionnaire as

ways to cope) were reported as positive predictors of job satisfaction (Li & Lambert, 2008a). Increased workload also had an inverse relationship with job satisfaction in Penz et al.'s (2008) study and Li and Lambert's (2008b) study. Li and Lambert (2008b) utilized Spector's Job Satisfaction Survey (1997) among Chinese ICU nurses and identified an inverse relationship between increased workload, poor supervision, decreased contingent rewards, complex nature of the work, poor communication, limited self-distraction, low levels of humor, poor acceptance, increased levels of self-blame, denial and inability to vent. Li and Lambert (2008b) suggested developing more autonomy and enhancing opportunities to work collaborative with physicians in the care of patients could improve a Chinese ICU nurses' self-worth and subsequently their job satisfaction.

Chaboyer et al. (2013) sampled 10 Australian ICUs and found positive teamwork climate, job satisfaction and stress recognition were directly associated to staff perceived ability to provide optimal patient care. Chaboyer et al. (2013) utilized the ICU version of the Safety Attitude Questionnaire (SAQ) (Thomas, Sexton, & Helmreich, 2003), and the refined Flight Management Attitude Questionnaire to obtain their findings. Galletta, Portoghese, Coppola, Finco, and Campagna (2014) utilized a self-reported paper questionnaire based on validated scales derived from psycho-social literature and reported ICU nurses working in four Italian urban hospitals had moderate to high levels of perceived quality of practice, job satisfaction and team commitment. This study also found a direct association between safe and efficient teams and job satisfaction.

Myhren, Ekeberg, and Stokland (2013) used the Job Satisfaction Scale (Warr, Cook, & Wall, 1979), a modified version of the Cooper's job stress questionnaire (Sutherland & Cooper,

1992), the Maslach Burnout Inventory (Maslach, Schaufeli, & Leiter, 2001) and a basic character inventory developed by the authors in Norwegian medicine, general, and coronary ICUs. Myhren et al. (2013) reported significantly higher job satisfaction in the medical ICU compared to the general and coronary ICUs. They also reported an inverse association between job satisfaction and job stress, depersonalization, and emotional exhaustion.

Summary

Multiple factors within research have been identified to influence nurse perceived job satisfaction. In three separate studies, increased workload had an inverse relationship with perceived job satisfaction (Penz et al., 2008; Li & Lambert, 2008a; Li & Lambert, 2008b). The research also reported a positive influence on ICU nurses' perceived job satisfaction based on access to resources, autonomy, and support (Li & Lambert, 2008b). Nurse perceived job satisfaction also had a direct association between positive relationships with physicians, and trusting colleagues to provide support (Haut et al., 2006; Mahon, 2014). It is not only important to identify variables that influence job satisfaction but it is essential to foster an environment that nurtures a positive workplace environment.

Empowerment

Definition of Empowerment

Kanter (1977) was one of the first to explore empowerment within organizations even though power has been discussed in nursing literature since the 1970s (Kalisch & Kalisch, 1978). Kanter (1993) believed that empowerment was defined by the organization and its environment. The organization provided the two forms of power: formal and informal. Formal power refers to

the ability to mobilize resources, information, and support within the organization and is derived from jobs that are considered central to the organization. Formal power gives individuals flexibility and creativity through discretion in decision making by having a sought after level of prestige. Informal power is developed from relationships within and outside of an organization and provides social connections and information channels beneficial to the organization.

Together these two forms of power influence the levels of nurse productivity and organizational empowerment.

Kanter's (1993) Theory of Empowerment also explains four structural ways (ways to build power) to obtain power within an organization: access to opportunity, access to information, access to support, and access to resources (See Figure 2.1). Access to opportunity refers to the probability of future advancement. Access to information refers to the accessibility of knowledge. Access to support refers to available social support within an organization. Access to resources refers to accessible supplies or money within an organization. (Kanter, 1993). The premise behind Kanter's Theory of Empowerment suggests structural empowerment can be provided formally or informally when opportunity, information, support, and resources, are present therefore increasing job satisfaction and decreasing intent to leave. Laschinger et al.'s (2001) CWEQ II is a 21 item questionnaire that measures the four structural ways to obtain power and the two forms of power.

Figure 2.1

Rosabeth Kanter's (1977, 1993) Theory of Empowerment

Two forms of power:

- 1. Formal \rightarrow Power by title
- 2. Informal \rightarrow Power by Association

Ways to obtain empowerment through power:

- 1. Access to opportunity
- 2. Access to information
- 3. Access to support
- 4. Access to resources

Chandler (1986) expanded upon Kanter's (1977) Theory of Empowerment and was the first nursing researcher to examine nurses' perceptions of empowerment within their current workplace. Chandler's (1986) research study combined Roger's (1970) nursing model and Kanter's (1977) organizational theory by exploring the relationship between a nurse's behavior within a scientific and artistic perspective to see how it affected their organizational future. Thomas and Velthouse (1990) stated that empowerment could not be captured by a single concept. Spreitzer (1995) viewed empowerment as developed from ones psychological state, and Conger and Kanungo (1988) viewed empowerment as a phenomenon that was psychological in nature. Laschinger et al. (2001) felt empowerment was a combination of both organizational and psychological backgrounds, and organizational empowerment is what motivates an individual's psychological perception.

An individual's desire to achieve professional goals has been identified within Healthy Workplace Environment, and is the foundation for the concept of empowerment (Kramer & Schmalenberg, 2008). Kramer and Schmalenberg (2008) concluded that Healthy Workplace Environments empower their employees. Healthy Workplace Environments provide policies, procedures, and systems to allow employees to meet personal and professional goals within their organization (Disch, 2002). Research by Blake et al. (2013) suggests Healthy Workplace Environments influenced pediatric ICU nurses intent to stay by encouraging strong nurse leadership.

Empowerment Research within the ICU

Nurses have the potential to be empowered within an organization. Empowerment can provide several benefits within an organization. Armellino, Griffin, and Fitzpatrick (2010) used the CWEQ II to measure empowerment (Laschinger et al., 2001), demographic data, and the Hospital Survey on Patient Safety Culture (Sorra & Nieva, 2004a) and reported that nurses who worked in adult critical care units perceived themselves to be moderately empowered. Age and years of experience as a critical care nurse and at the hospital had an inverse relationship with perceived opportunity identified within the CWEQ II (Laschinger et al., 2001). Also, critical care nurses without patient safety culture certification perceived a higher level of structural empowerment than those who had certification. Knowledge of patient safety culture was directly associated to perceptions of empowerment with Armellino, Griffin & Fitzpatrick's (2010) study.

Utilizing the CWEQ-II (Laschinger et al., 2001), self-reported national certification, and two yes/no intent to leave questions, Fitzpatrick, Campo, Graham, and Lavandero (2010) reported that ICU nurses surveyed across the U.S.A. had an inverse relationship between

32

empowerment and intent to leave. Fitzpatrick et al. (2010) reported that participants with graduate degrees scored higher on all the CWEQ-II's (Laschinger et al., 2001) subscales except the resource subscale. The empowerment scores were also correlated to race: the highest scores reported among Asians, followed by Caucasians, African Americans, Hispanics, and other. When comparing gender, women reported a higher total empowerment score and higher score on the subscales of opportunity, information, formal power and informal power.

Browning (2013) utilized the Moral Distress Scale (Corley, 1995) and the Psychological Empowerment Instrument (Spreitzer, 1995) amongst U.S. American Association of College Nursing (AACN) ICU nurses and reported the empowerment item, "I really care about what I do on my job" scored highest and the empowerment item "I have a great deal of control over what happens in my department" scored the lowest. Increased hours worked per week, age, and ICU experience were positively correlated to self-perceived empowerment. A moderate positive correlation was found between empowerment and End-of-Life Nursing Education Consortium (ELNEC) trained ICU nurses suggesting educational opportunities enhance empowerment perceptions. Ganz et al. (2012) used the CWEQ-II (Laschinger et al., 2001), a demographic/work characteristic questionnaire, and the Moral Distress Scale (Corley, Elswick, Gorman & Clor, 2001) and reported Israeli ICU nurses had moderate levels of structural empowerment, low levels of moral distress frequency, and moderately high levels of moral distress intensity.

Wahlin, Ek, and Idvall (2010) conducted a phenomenological approach to research empowerment as experienced by four ICU nurses and four ICU doctors in Southern Sweden. They reported seven themes: "feelings of doing good"; "nourishing encounters"; "challenge,

variety, speed and excitement"; "knowledge and skill"; "self-esteem and self-confidence"; "teamwork", and "good atmosphere and organization".

"Feelings of doing good" referred to feeling empowered when nurses were able to provide the best possible care for their patients. "Nourishing encounters" referred to positive relationship with patients and next of kin. "Challenge, variety, speed, and excitement" referred to saving a patient from a life threatening condition in a fast paced environment. "Knowledge and skills" referred to continuous individual development through education and experience. "Self-esteem and self-confidence" referred to feeling both valuable and useful and derived from next of kin appreciation of care provided regardless of patient outcome. "Teamwork" referred to working together toward the same goal in critical situations. "Good atmosphere and organization" referred to allowing openness to discuss feelings and share humor without fear of being judged. Together these seven themes were identified as experiences that increased strength and, and perceptions of empowerment.

Summary

Overall, the research reported ICU nurses were moderately empowered (Armellino et al., 2010; Ganz et al., 2012). Experience, education, gender, and race had a direct association to perceptions of empowerment (Wahlin et al., 2010; Browning, 2013; Fitzpatrick et al., 2010). As Ganz et al. (2012) reported in this study, the impact of empowerment is beneficial in establishing a good atmosphere to foster teamwork and self confidence.

Job Satisfaction, Intent to Leave and Empowerment Research within the ICU

Job satisfaction, intent to leave, and empowerment within the ICU has been explored within the USA and Finland but not previously within Canada. Hauck et al. (2011) reported empowerment had an inverse relationship between intent to leave identifying an inverse relationship between North Eastern USA ICU nurses perception utilizing the CWEQ-II (Laschinger et al., 2001) and the Anticipated Turnover Scale (Hinshaw et al., 1985). This study reported that high empowerment scores were related to the hospital's partnerships with universities and community colleges that provide baccalaureate, master and doctoral level courses, the Critical Care Fellowship Program, and the Clinical Ladder Program for nursing (a program that recognizes and rewards nurses financially for hospital and community contributions). ICU nurses who reported perceived empowerment had a positive correlation to perceived autonomy, organizational commitment and job satisfaction. While Hauck et al. (2011) did not identify a relationship between empowerment and job satisfaction, they encouraged others to explore the possibility within ICU nursing.

Suominen, Leino-Kilpi, Merja, Doran, and Puuka, (2001) explored empowerment through Irvine, Leatt, Evans, and Baker's (1999) Empowerment Questionnaire in the context of Finnish ICU nurses and reported it had three subscales: behavioral, verbal and outcome. These three components of empowerment allowed employees to gain control over their work environment, and put those decisions into practice. Within the area of the behavioral empowerment subscale, ICU nurses reported trusting their own abilities to work in group settings and learn new organizational skills. These findings are similar to Hauck et al. (2011) who reported ICU nurses perceived empowerment as positively associated to autonomy. Within the

verbal empowerment subscale, ICU nurses had the most confidence in their ability to communicate their views to co-workers and to participate in decisions that concerned their work, and were less confident in their ability to state their opinions in group meetings or explain their views on work problems to managers outside their own department. Within the area of the outcome empowerment subscale, ICU nurses had most confidence in their abilities to change the way they worked and to help co-workers make improvements at work. They were less confident in their abilities to help people from different departments to determine the root causes of their problems or make a difference to the efficiency of the hospital.

The experience of behavioral, verbal and outcome empowerment was directly associated with age. Stronger verbal and outcome empowerment occurred with age. Increased behavioral, verbal, and outcome empowerment was also directly associated with years of ICU nursing experience. This research suggests that feelings of empowerment occur over time and with experience as an ICU nurse. The type of ICU showed no statistically significant associations with any areas of empowerment. Increased behavioral, verbal and outcome empowerment were directly associated to motivated nurses, job satisfaction, and respect for job autonomy. The single strongest area of empowerment was behavioral empowerment. Verbal empowerment was directly associated to positive teamwork and multi-professional co-operation within ICU nursing. One may infer that empowerment may exist amongst thoughts and through speech, but the benefit of a positive workplace environment is captured by demonstrating empowerment within an organization.

Summary

Research reported education, situational control, years of experience as an ICU nurse, and support have a direct association to ICU nurse perceived empowerment (Fitzpatrick et al., 2010; Browning, 2013; Ganz et al., 2012; Hauck et al., 2011). Several factors influenced ICU nurse's perception of empowerment and predominately nurse researchers have utilized the CWEQ II (Laschinger et al., 2001). The CWEQ II was created based on Kanter's (1993) Theory of Empowerment and includes questions to measure the four structural ways to obtain two forms of power: formal and informal.

Caring

Definition of Caring

Within nursing, there are currently three grand theories of caring: Leininger's Caring: A central focus of nursing and health services (1980); Orem's Self-Care Deficit (1991); and Watson's Philosophy and Science of Caring (1988). Leininger's (1980) was the founder of transcultural nursing, and believed that universal care was required to promote health and well-being. Orem's (1991) self-care deficit emphasized the importance of maintaining one's own well-being, with interventions considered to act on behalf of others by guiding, providing, supporting, and teaching when the individual is incapable or limited in their abilities. Watson (1988) focused on the humanistic aspects of nursing by creating a balance between a scientific and caring perspective. These three perspectives provide different aspects of the concept of caring.

Brilowski and Wendler (2005) identified five elements within the concept of caring:
'relationship', 'action', 'attitude', 'acceptance', and 'variability'. The 'relationship' refers to the ability to establish a trusting atmosphere, identifying areas of concern, and motivated to provide assistance. 'Action' refers to doing for or being with the patient. 'Attitude' refers to providing a positive environment. 'Acceptance' refers to providing the patient with dignity and respect.
'Variability' refers to the aspect of caring with growth and change as the nurse acquires experience and knowledge. Together all five of these elements are important to the nurse's understanding of the concept of caring. See Figure 2.2 for a summary of Briloski and Wendler's (2005) five attributes of caring.

Figure 2.2

Five Attributes of Caring (Briloski & Wendler, 2005)

- 1. Relationship: providing a trusting atmosphere
- 2. Action: assisting the patient
- 3. Attitude: providing a positive setting
- 4. Acceptance: respecting the patient's opinion
- 5. Variability: allowing the concept of caring to change with experience

The concept of caring remains multifaceted and complex, and validates the human aspect of both the patient and the nurse. However, caring within the context of the ICU has another layer of complexity in comparison to other units within a hospital. Caring in the ICU means "being uncompromisingly on call in order to assess the critical illnesses and to strive continually to preserve patients' lives and eliminate threats" (Olausson, Ekebergh, & Osterberg, 2014).

Caring and Empowerment Research

Four case studies completed by Teasdale (1989) were reviewed by Malin and Teasdale (1990) to compare the concepts of caring and empowerment to understand which concept is more beneficial within the health system. The first case study identified as 'only a little scratch' explained how a nurse embraced her need to provide a caring environment by distracting and reassuring a nervous patient about to undergo surgery. The second case study identified as 'I didn't want to frighten you' discussed how providing empowerment through explaining preoperatively what type of pain to expect prior to the patients surgery avoided the patient's frustration with the pain actually experienced post-operatively. The third case study 'you can't soften the blow' explained the benefits of empowering the patient by explaining the possible repercussions of the surgery pre-operatively allowing the patient to choose whether to go through with the surgery. The fourth case study 'a devious package' discussed how withholding news about the patient moving until the patient felt he was ready to move was a caring intention because it was protecting him from the stress of feeling forced into moving. These case studies found caring and empowerment are two separate approaches to providing a patient with information. A caring approach provides information a patient is able to predict, whereas an empowering approach provides information that allows the patient the ability to control the event. This research reported there is no right approach when communicating information to a patient, but did report the benefits of incorporating both caring and empowerment.

Caring Research within the ICU

In 2004, Wilkin and Slevin utilized a semi structured interview guide with 46 ICU nurses to understand the meaning of caring in ICU nursing and found one central theme: 'concept of

care' and three related themes 'nursing feelings', 'nursing knowledge', and 'nursing skills'.

'Nursing feelings' refers to the motivator of nursing action. The patient's vulnerability needed to be identified and comforted in order to provide holistic nursing care. 'Nursing knowledge' refers to the technical competence, knowledge and professional experience which helped the nurse in becoming confident to care, and evolved from the data. 'Nursing skills' refers to the therapeutic nurse-patient interaction, basic nursing care, providing emotional support, appropriate staffing and time management. The research suggests that caring in the ICU is more than understanding the technology; it is also about understanding what the patient wants, and establishing the trusting relationship to act as an advocate for that individual. An ICU nurse demonstrates caring through appreciating the patient's vulnerability, takes the time to notice the subtle cues through the patient's change of breathing, heart rate, restlessness, and works together with the team to enhance the patient's quality of life while they are in such a delicate state of life.

Price (2013) used an ethnographic approach to understand how technology affected caring practice in an ICU setting and identified four themes: 'vigilance', 'focus of attention', 'being present', and 'expectations'. 'Vigilance' refers to maintaining safety, responding to warnings, and relaying abnormalities to other members of the health care team which is similar to Wilkin and Slevin's (2004) theme 'nursing knowledge'. 'Focus of attention' refers to balancing the physical stability of the patient and providing the psychological support. 'Being present' refers to building a relationship with the critically ill patient and their family and is similar to Wilkin and Slevin's (2004) theme 'nursing skills'. 'Expectations' refers to the need to stay busy, whether it was providing patient care or documenting progress. Both Price (2013) and Wilkin and Slevin (2004) reported that the concepts of 'caring' and 'technology' could not be separated, rather the focus was to prioritize based on the best interest of the patient. An ICU

nurse needs to balance their ability to understand and appreciate the patient's quality of life, while advocating on behalf of the patient to provide the best medical and technological support.

Mattson, Forsner, Castren, and Arman (2013) conducted an interpretive phenomenology approach to understand the meaning of nursing care in PICU nurses in Sweden and found three themes: 'medically oriented nursing', 'parent oriented nursing care', and 'smooth operating nursing care orientation'. 'Medically oriented nursing' referred to care provided at a minimum and only on an 'as needed basis'. 'Parent oriented nursing care' refers to nursing that informs the parents about what will happen and why nursing was being carried out in a certain way, in adult language, directed toward the parent, not the child. 'Smooth operating nursing care orientation' refers to nursing care in a more relaxed environment where medical interventions are provided based on the child and family's needs. The research reported when the situation changed to critical; nursing staff had a 'medically oriented' approach; which at times compromises the child's well-being by objectifying them. While 'smooth operating nursing care orientation' is ideal especially when crises occur; in order to process how to troubleshoot in a time sensitive environment, a certain amount of detachment occurs. It would be interesting to note for future research if this change in orientation was due to self-preservation of the nurse to ensure personal attachment did not cause moral distress when the patient's condition deteriorated; or if other factors may be the cause.

Olaussonet al. (2014) conducted a phenomenological survey in three Swedish ICU's and found an incongruence between the architectural design of the bed spaces and aspects that provide strength, hope, and well-being for the critically ill patients and their families. Five themes were identified within the study: 'observing and being observed', 'a broken promise',

'cherishing life', 'ethical predicament', and 'creating a caring atmosphere'. 'Observing and being observed' refers to simply seeing the patient in their critically ill state and the technology currently providing the support similar to Mattson et al.'s (2013) theme of 'medically oriented nursing'. 'A broken promise' refers to the inability to promote well-being because of the physical atmosphere within the ICU. 'Cherishing life' refers to providing comfort and recognizing the concerns of both patient and family; and is similar to Price's (2013) theme of 'focus of attention'. 'Ethical predicament' refers to the open physical layout of the ICU knowing that privacy may not always be provided. 'Creating a caring atmosphere' refers to establishing trust which is similar to Price's (2013) theme of 'being present' and Wilkin and Slevin's (2004) theme 'nursing skills'. This study emphasized the need to include the frontline ICU staff in future construction of ICU's to ensure patients are provided the best atmosphere for their critical care needs. The frontline staff are aware of what patients may need in order optimize their current health status, and by incorporating frontline staff's perspective in construction remodeling costs may be reduced.

Siffleet, Williams, Rapley, and Slatyer (2015) used a qualitative methodology grounded theory in a Western Australian ICU to understand ICU nurses' perceived emotional wellbeing within the ICU. Emotional wellbeing occurred when ICU nurses felt they had provided their best care to critically ill patients and families. Siffleet et al. (2015) reported that all 15 ICU nurses intended to remain in the ICU and this was due to their ability to protect themselves from distress. 'Protecting self from distress' is a basic psychological process, that involves three independent phases: 'delivering best care', 'validating care episodes', and 'distancing self from distress'. 'Delivering best care' refers to the ICU nurses' ability to experience personal satisfaction and emotional wellbeing from providing care to the patient and their family.

42

'Validating care' refers to reflecting on ICU incidences to find meaning and perspective in the care provided. 'Distancing self from distress' refers to the ICU nurses ability to develop a psychological barrier between the nurse and the distressing experience. This study emphasized the importance of how ICU nurses maintain emotional wellbeing through providing their best care to patients and families and seeking support and understanding when distressing events occur. The ICU nurses' ability to continue to provide best possible care in the midst of such a stressful environment impacts their desire to stay in the ICU.

Enns and Sawatzky (2016) used a qualitative descriptive design amongst 17 emergency room nurses in central Canada and reported six factors that affect caring: 'workload', 'lack of time', 'staffing issues', 'lack of management support', 'shift work', and 'lack of self care'. 'Workload' refers to nurses feeling "pulled" in several directions. 'Lack of time' refers to nurses not being able to provide care they feel the patient requires. 'Staffing issues' refers to shortage of nurse's impacts the quality of care they are able to provide. 'Lack of management support' refers to the nurse's desire to have a manager they can talk to and who would listen to their concerns. 'Shift work' refers to not the type of shifts worked, rather the expectation of nurses to work overtime. 'Lack of self care' refers to the nurses' inability to stop for a meal due to the pressure of meeting patient needs. This research is different from other research on caring because it focuses on the elements that impact caring rather than how the nurse perceives care.

Summary

As Enns and Sawatzky (2016) described, several variables impact nurses' ability to provide care. Nurses identify caring as an essential element of their job. The caring atmosphere within the ICU balances the need between the technology providing the necessities of life for the

patient; the open atmosphere that does not allow for private moments of reflection; the goal of maintaining the patient's physical and emotional well-being; and the importance of relationships between the nurse, the patient, and the patient's family (Wilkin & Slevin, 2004; Price, 2013; Mattson et al., 2013; Olausson et al., 2014; Siffleet et al, 2015). One may infer that a fostering, caring environment may have a direct association with job satisfaction and intent to stay, and an inverse relationship with intent to leave.

Overall Summary

Each of the four concepts: empowerment, caring, job satisfaction, intent to leave, and intent to stay are based on nurses' subjective perceptions. Throughout the literature, empowerment was reported amongst ICU nurses who had support and experience. Caring was identified within the research as essential to establish relationships with patients. Job satisfaction was reported amongst ICU nurses who perceived experience, support, autonomy, access to resources, and opportunity for teamwork. Intent to leave reported a direct association between limited managerial support, fewer years of experience, and poor work environment. Intent to stay research reported a direct association between dependent variables such as work hours and overtime.

The CFPNR is a good framework to use to identify the interrelationships amongst job satisfaction, caring, empowerment, intent to leave and intent to stay. Research suggests intent to leave has an inverse relationship with job satisfaction, caring, empowerment, and intent to stay. However, Canadian research exploring these interrelationships is limited.

A knowledge gap exists and more information is needed to understand why ICU nurses are intending to leave or stay. Such knowledge would assist in understanding why there is a current ICU nursing shortage and promote retention. The plan for Chapter Three will focus on describing the survey population, the plan for data collection, setting and sample size, and the measurement tools.

Chapter Three: Design and Measurement

This study explores the association between empowerment, caring; socio-demographic factors (age, years of experience in the ICU, and education), and job satisfaction as independent variables. Intent to leave or intent to stay are the dependent variables. In this chapter, study design, sample are described and measured. The plan for data analysis is presented.

Study Design and Sample

This study used a cross sectional design. A cross sectional design is a type of observational study that involves the analysis of data collected from a population at one specific point in time. The benefits of utilizing cross sectional designs include the ability to collect existing data in a short period of time at little or no expense and the ability to obtain information on large populations (Meyer, Wheeler, Weinberger, Chen, & Carpenter, 2014). The major limitation associated with cross sectional design is the inability to establish causality (Meyer et al., 2014). This study explored relationships at one point in time and a limitation is the inability to establish causation.

Questionnaires were submitted to practicing ICU nurses registered through the internet using the online survey tool Survey Monkey. The College of Registered Nurses of Manitoba provides this service for a nominal charge for researchers who wish to access a sample of RNs to answer research questions. With guidance from the Conceptual Framework for Predicting Nurse Retention (CFPNR), the questionnaire items intended to meet the following four research objectives:

- 1. To compare the reasons why ICU nurses intend to leave or intend to stay (outcome).
- 2. To explore the relationships among empowerment, caring, socio demographic factors (influencing factors), and job satisfaction (intermediary factor).
- 3. To examine the relationship between job satisfaction (intermediary factor) and intent to leave or intent to stay (outcome).
- 4. To examine the overall relationships among empowerment, caring, socio-demographic factors (influencing factors), job satisfaction (intermediary factor), and intent to leave or intent to stay.

The advantages of using online surveys are: low to no cost, convenience, accessibility, quick response time, anonymity, and precise results (Gingery, 2011). There are some disadvantages to online surveys and they include: limited response rate due to lack of internet accessibility, inflexible design, and possible inappropriateness of questions (Gingery, 2011). Questionnaires were disbursed to 630 Registered nurses employed within coronary, neonatal, pediatric, medical, surgical, and / or intermediate intensive care units electronically by the College of Registered Nurses of Manitoba (CRNM). The CRNM is a regulatory body for registered nurses since 1913 that sets standards for education, registration, practice, and order appropriate remedial or disciplinary actions when standards are not met (CRNM, 2014). The questionnaires were data collected and converted to SPSS data files and saved on two flash drives, one for the researcher and the other for her advisor. The contents of these two flash drives will be erased two years after approval of the study. Several factors influence the response rate from online surveys including target population, relationship with the participants, personalization of the email

invitation, survey length, complexity of questions, survey topic, incentives for participation, and reminder emails (Porter, 2012). The average response rate for external audiences, or audiences not known to the individual conducting the survey, is between 10-15% (Fryrear, 2015). For this study, although survey questionnaire was only 59 items, the lack of personalization to the audience and an incentive likely contributed to the response rate of 12%.

Measurements

Empowerment Questionnaire (Influencing Factor)

Empowerment was measured using the CWEQ II (Laschinger et al., 2001; Laschinger, 2008; Laschinger, Finegan, and Wilk, 2009). Research on hospital based nurses in Ontario reported empowerment had a direct and indirect effect on trust in management and a significant direct effect on respect, trust, job satisfaction, and organizational commitment (Laschinger & Finegan, 2005). Laschinger (2008) reported organizational empowerment (using the CWEQ II) had a positive effect on nurse leadership quality, nurses decisional involvement, nurse physician collaboration, perceived staffing adequacy and influenced levels of job satisfaction. This study was sited in Ontario.

In another study, Laschinger et al. (2009) used the CWEQ II (Laschinger et al., 2001), to conduct research on hospital based Ontario nurses, reported unit-level organizational empowerment positively influenced staff nurse's feelings of psychological empowerment and organizational commitment at the individual level (Laschinger et al., 2009). Dr. Laschinger's research reported that empowerment was directly associated to nurse perceived job satisfaction, organizational commitment, and intent to leave. The research reported the CWEQ II (Laschinger

et al., 2001) has been positively associated with respect, trust, job satisfaction, organizational commitment, nurse leadership quality, nurse decisional involvement, nurse physician collaboration, and perceived staffing adequacy. In summary, the CWEQ II (Laschinger et al., 2001) has demonstrated validity in Ontario samples of nurses in three separate studies.

The CWEQ II is composed of 19 items that measure the six components of empowerment described by Kanter (1993) (opportunity, information, support, resources, formal power and informal power), and a two item global empowerment scale used for construct validity. The items are averaged on each of the six components to provide a score ranging on each subscale from 1-5, and a total empowerment score from 6-30. Higher scores mean higher perceptions of empowerment. The two global empowerment items are summed and averaged to provide a score ranging from 1–5, rather is used to measure construct validity. This score is not included in the structural empowerment score.

The CWEQ II has a good Cronbach's alpha reliability range of 0.79 to 0.82, and 0.71 to 0.90 for the six subscales (U.S. Department of Health and Human Services & U.S. Department of Labor, 2005). Construct validity of the CWEQ II has been supported by a confirmatory factor analysis through the two global empowerment questions, and has been correlated highly with a global empowerment measure (U.S. Department of Health and Human Services & U.S. Department of Labor, 2005). See Figure 3.

Figure 3

Conditions of Work Effectiveness Questionnaire II (Laschinger et al., 2001)

HOW MUCH OF EACH KIND OF OPPORTUNITY DO YOU HAVE IN YOUR PRESENT JOB?

		None		Some	_	A lot
1.	Challenging work	1	2	3	4	5
2.	The chance to gain new skills and knowledge on the job.	1	2	3	4	5
3.	Tasks that use all of your own skills and knowledge	1	2	3	4	5

HOW MUCH ACCESS TO INFORMATION DO YOU HAVE IN YOUR PRESENT JOB?

		No Some			Know	
		Knowledge	<u>;</u>	Knowledge		A lot
1.	The current state of the hospital.	1	2	3	4	5
2.	The values of top management.	1	2	3	4	5
3.	The goals of top management.	1	2	3	4	5

HOW MUCH ACCESS TO SUPPORT DO YOU HAVE IN YOUR PRESENT JOB?

		None		Some		A lot
1.	Specific information about things you do well.	1	2	3	4	5
2.	Specific comments about things you could improve.	1	2	3	4	5
3.	Helpful hints or problem solving advice.	1	2	3	4	5

HOW MUCH ACCESS TO RESOURCES DO YOU HAVE IN YOUR PRESENT JOB?

		None		Some		A lot	
1.	Time available to do necessary paperwork.	1	2	3	4	5	
2.	Time available to accomplish job requirements.	1	2	3	4	5	
3.	Acquiring temporary help when needed.	1	2	3	4	5	

IN MY WORK SETTING / JOB:

		None			,	A lot
1.	The rewards for innovation on the job are	1	2	3	4	5
2.	The amount of flexibility in my job is	1	2	3	4	5
3.	The amount of visibility of my work-related activities within the institution is	1	2	3	4	5

HOW MUCH OPPORTUNITY DO YOU HAVE FOR THESE ACTIVITIES IN YOUR PRESENT JOB?

OW N	5W MUCH OFFORTUNITT DO TOU HAVE FOR THESE ACTIVITIES IN TOUR PRESENT JOB?								
		None	_			A lo	<u>t</u>		
1.	Collaborating on patient care with physicians.	1	2	3	4	5			
2.	Being sought out by peers for help with problems	1	2	3	4	5			
3.	Being sought out by managers for help with problems	1	2	3	4	5			
4.	Seeking out ideas from professionals other than	1	2	3	4	5			
	physicians, e.g., physiotherapists, occupational								
	therapists, dieticians.								
	<u>St</u>	trongly Dis	agree			Stron	gly Agree		
1.	Overall, my current work environment empowers	1	2	3	3	4	5		
	me to accomplish my work in an effective manner.								
2.	Overall, I consider my workplace to be an	1	2	3	3	4	5		
	empowering environment.								

Caring Efficacy Scale

Caring was measured using Coates (1997) Caring Efficacy Scale (CES). The CES was developed and based upon Watson's Transpersonal Theory of Caring and Bandura's Self-Efficacy Theory (Coates, 1997). The CES is composed of 30 items administered on a six point Likert Scale (-3 = strongly disagree, +3 = strongly agree) that measures an individual's ability to establish a caring relationship with patients. The 30 items are added up and averaged to provide a score ranging from 1-6 for each individual who responds. The cumulative scale score is equal to

caring efficacy. The CES has consistent reliability and a Cronbach's alpha of 0.88 (Coates, 1997). See Figure 3.1. Caring was measured in the research by Sawatzky and Enns (2012) as an intermediary factor. In that study, it was operationalized with the contrast of compassion fatigue and compassion satisfaction from the Professional Quality of Life Scale (Stamm, 2005) and as a qualitative component. For this study, Coates' (1997) Caring Efficacy Scale was selected because it captures the essence of caring and perceived self efficacy in caring quantitatively for use in an online questionnaire.

51

Figure 3.1

Caring Efficacy Scale (Coates, 1997)

Rating Scale:

-3 strongly disagree +1slightly agree -2 moderately disagree +2 moderately agree -1 slightly disagree +3 strongly agree

		Strongly disagree					Strongly agree
1.	I do not feel confident in my ability to express a sense of caring to my clients / patients.	-3	-2	-1	+1	+2	+3
2.	If I am not relating well to a client / patient, I try to analyze what I can do to reach him / her.	-3	-2	-1	+1	+2	+3
3.	I feel comfortable in touching my clients / patients in the course of caregiving.	-3	-2	-1	+1	+2	+3
4.	I convey a sense of personal strength to my clients / patients.	-3	-2	-1	+1	+2	+3
5.	Clients / patients can tell me most anything and I won't be shocked.	-3	-2	-1	+1	+2	+3
6.	I have an ability to introduce a sense of normalcy in stressful conditions.	-3	-2	-1	+1	+2	+3
7.	It is easy for me to consider the multifacets of a client's / patient's care, at the same time as I am listening to them.	-3	-2	-1	+1	+2	+3
8.	I have difficulty in suspending my personal beliefs and biases in order to hear and accept a client / patier as a person.	-3 nt	-2	-1	+1	+2	+3
9.	I can walk into a room with a presence of serenity and energy that makes clients / patients feel better.	-3	-2	-1	+1	+2	+3
10.	I am able to tune into a particular client / patient and forget my personal concerns.	-3	-2	-1	+1	+2	+3
11.	I can usually create some way to relate to most any client / patient.	-3	-2	-1	+1	+2	+3
12.	I lack confidence in my ability to talk to clients / patients from backgrounds different from my own.	-3	-2	-1	+1	+2	+3

		Strong disagr	-				Strongly agree
14.	I use what I learn in conversations with clients / patients to provide more individualized care.	-3	-2	-1	+1	+2	+3
15.	I don't feel strong enough to listen to the fears and concerns of my clients / patients.	-3	-2	-1	+1	+2	+3
16.	Even when I'm feeling self-confident about most things, I still seem to be unable to relate to clients / patients.	-3 -3	-2 -2	-1 -1	+1 +1	+2 +2	+3 +3
17.	I seem to have trouble relating to clients \slash patients.	-3	-2	-1	+1	+2	+3
18.	I can usually establish a close relationship with my clients / patients.	-3	-2	-1	+1	+2	+3
19.	I can usually get patients / clients to like me.	-3	-2	-1	+1	+2	+3
20.	I often find it hard to get my point of view across to patients / clients when I need to.	-3	-2	-1	+1	+2	+3
21.	When trying to resolve a conflict with a client / patient, I usually make it worse.	-3	-2	-1	+1	+2	+3
22.	If I think a client / patient is uneasy or may need help, I approach that person.	-3	-2	-1	+1	+2	+3
23.	If I find it hard to relate to a client / patient, I'll stop trying to work with that person.	-3	-2	-1	+1	+2	+3
24.	I often find it hard to relate to clients / patients from a different culture than mine.	-3	-2	-1	+1	+2	+3
25.	I have helped many clients / patients through my ability to develop close, meaningful relationships.	-3	-2	-1	+1	+2	+3
26.	I often find it difficult to express empathy with clien / patients.	ts -3	-2	-1	+1	+2	+3
27.	I often become overwhelmed by the nature of the problems clients / patients are experiencing.	-3	-2	-1	+1	+2	+3
28.	When a client / patient is having difficulty com-	-3	-2	-1	+1	+2	+3
	municating with me, I am able to adjust to his / her le	evel.					
29.	Even when I really try, I can't get through to difficult clients / patients.	-3	-2	-1	+1	+2	+3
13.	I feel if I talk to clients / patients on an individual, personal basis, things might get out of control.	-3	-2	-1	+1	+2	+3
30.	I don't use creative or unusual ways to express carin	g -3	-2	-1	+1	+2	+3
	to my clients / patients.						

Socio-Demographic Characteristics (Influencing Factor)

Age, education, and years of experience as an ICU nurse constitute the sociodemographic data that was collected. Along with empowerment and caring, socio-demographic
characteristics comprise the influencing factors that prior studies show relate directly or
indirectly (through job satisfaction) to intent to leave or intent to stay. Age was measured as a
continuous variable and nurses were asked to provide their years of age. Education was
measured as RN diploma, BN degree, MN degree, PhD degree, or other. Finally, years of
experience as an ICU nurse were measured as a continuous variable in terms of total years of
ICU experience. Gender was not included as historically nursing has been a female dominated
profession.

Job Satisfaction Question (Intermediary Factor)

Job Satisfaction was measured using a single item question on a five point visual analogue scale (1= not at all satisfied; 5 = very satisfied). The single item score ranges from 1-5, and the higher the score the more satisfied an individual is with their job. Previous research supports the use of a single item job satisfaction question (Sawatzky & Enns, 2012; Nagy, 2002). See Figure 3.2 for the single item job satisfaction question.

Figure 3.2

Job Satisfaction Question

	Not at all				Very
	Satisfic	ed_		_	Satisfied
How satisfied are you with your	1	2	3	4	5
current position?					

Intent to Leave and Intent to Stay Question (Outcome)

Intent to leave was measured using a single item intent to leave question scored on two points of "yes" or "no". Single item intent to leave questions have been widely used throughout nursing research exploring nurses' intent to leave (Blake et al., 2013; Lai et al., 2007; Stone et al., 2009). See Figure 3.3.

Figure 3.3

Intent to Leave Question

Yes No

Do you intend to leave your current position in the ICU in the next 6 months?

In order to learn more about participants' subjective motivation to leave, an open-ended question was provided: "If yes, why do you intend to leave your position? You can give more than one answer". Intent to stay was measured using single item intent to stay question scored on two points of "yes" and "no". See Figure 3.4.

Figure 3.4

Intent to Stay Question

Yes No

Do you intend to stay in your current position in the ICU?

Similarly, an open-ended question was provided: "If yes, why do you intend to stay in your position? You can give more than one answer". These two open-ended items captured ICU nurses' perceived reasons for intending to leave or intending to stay.

Data Analysis Plan

For qualitative analysis, two open-ended items asked about nurses' intent to leave and intent to stay in their current position. The question asked, "If yes, why do you intend to leave/stay in your position?" Data from these two open-ended items was coded into major themes by the researcher and her advisor.

For quantitative data, analyses were univariate (frequencies), bivariate, and multivariate.

Univariate analysis was used to describe the means, standard deviation, range and when appropriate, the means and median of variables. Because of non-normal distributions and small

57

sample size, non-parametric bivariate analysis was conducted to explore the relationship between two variables. Finally, multivariate analysis (ordinal logistic regression) was used to explore the interrelationships among all of the variables in the Conceptual Framework for Predicting Nurse Retention model. Consultation was provided by a faculty member with expertise in multivariate analysis, Dr. Rashid Ahmed.

Ethical Review

The study received ethical approval from the thesis committee and by the Education Nursing Research Ethics Board on September 30, 2015. The Approval Certificate is found in Appendix A.

Summary

The CFPNR provided the theoretical model to study the relationships among empowerment, caring, socio-demographic factors, job satisfaction and intent to leave or intent to stay. A cross sectional design meant a one time data collection occurred across a large population of ICU nurses working within the province of Manitoba. A link to Survey Monkey was submitted electronically by the CRNM containing: 1. the three demographic questions regarding nurses' age, years of experience in the ICU, and education; 2. the five measures: single item job satisfaction question, single intent to leave question, single item intent to stay question, CWEQII, and the CES experience; and 3. the two single open-ended items. Follow- up occurred once in two weeks after the initial request was submitted. Data analysis was conducted at univariate, bivariate, and multivariate analytical levels to explore the relationships between the independent variables (influencing factors and intermediary factors) and the dependent variable (outcome).

Chapter Four: Data Analysis and Results

58

A survey questionnaire was submitted electronically to ICU nurses currently registered as practicing in the province of Manitoba as defined by the regulatory body, the College of Registered Nurses of Manitoba (CRNM). The four objectives of the study were:

- 1. To compare the reasons why ICU nurses intend to leave or intend to stay,
- 2. To explore the relationships among empowerment, caring, socio demographic factors, (influencing factors) and job satisfaction (intermediary factor),
- 3. To examine the relationship between job satisfaction (intermediary factor) and intent to leave or intent to stay (outcome), and
- 4. To examine the overall relationships among empowerment, caring, socio-demographic factors, job satisfaction, and intent to leave or intent to stay (entire CFPNR model).

This chapter provides the data analysis procedures and the results of the study.

Data Analysis

Data was analyzed with the Statistical Package for the Social Sciences (SPSS), version 22. Cronbach's alpha was used for testing reliability of the CWEQ II (Laschinger et al., 2001) and the CES (Coates, 1997). Univariate analysis (frequencies and measures of central tendency) were used to describe the study's variable bivariate analysis (Spearman's r_s and the Mann-Whitney U) was used to explore relationships between two variables. Logistic regression was used to explore the relationships among empowerment, caring, socio-demographic factors, job satisfaction, and intent to leave or intent to stay. A total of 82 ICU nurses responded, however

due to two participants not completing a large portion of the survey and an additional seven participants who did not answer the questions appropriately, only 73 participants could be included yielding a 12% response rate.

Results

Socio Demographic Factors (Influencing Factors)

The age of participants ranged from 27 to 63 years, and the mean age was 43 years. 40 ICU nurses (54.8% of the participants) had a BN degree, 28 (38.4% of the participants) had a RN diploma, three (4.1%) had other type of certification to practice in critical care; and one (1.4% of the participants) had a MN degree. The mean years of experience working within the ICU were 11 years, and the range of experience was 1 to 34 years.

These findings are similar to previous research (Mahon, 2014; Li & Lambert, 2008a; Fitzpatrick et al., 2010; Siffleet et al., 2015; Browning, 2013; Ganz et al., 2012; Hauck et al., 2011; Suominen et al., 2001) where ICU nurses' years of experience ranged from 1 to 34 years (mean of 8 years of experience). Educational preparation for this study is similar to previous research (Ganz et al., 2012; Suominen et al., 2001; Mattsson et al., 2014; Olausson et al., 2014; Siffleet et al., 2015; Fitzpatrick et al., 2010) where the majority of nurses had a BN degree (58% of participants). However, Penz et al. (2008) reported the majority of their ICU nurses were diploma prepared, and Li and Lambert (2008a) reported the majority of their ICU nurses had a secondary degree (which is obtained through studying nursing in high school).

Empowerment (Influencing Factor)

For this study, the CWEQ II (Laschinger et al., 2001) contained 19 items amongst six subscales, plus two additional items that measured global empowerment for the purpose of construct validation. The CWEQ II measures six components of empowerment (opportunity, information, support, resources, formal and informal power) (Laschinger et al., 2001). The construct validity has been previously reported by a confirmatory factor analysis to be a good fit (χ^2 =279, df=129, CFI=.992, IFI=.992, RMSEA=0.54) (Laschinger et al., 2001). In this study, the Cronbach's alpha for the combined six subscales of the CWEQ II was 0.90. Cronbach's alpha for each of the six subscales and the total scale are given in Table 1. The GE consists of two global empowerment items at the end of the questionnaire. The Cronbach's alpha's for all subscales, the total scale and the GE are all above .70.

Table 1

Comparison of Cronbach's alpha reliability coefficients										
	Opportunity	Information	<u>Support</u>	Resources	<u>JAS</u>	<u>ORS</u>	<u>Total</u>	<u>GE</u>		
Laschinger et al., 2001	.81	.80	.89	.84	.69	.89	.93	.88		
This study	.90	.88	.86	.83	.83	.78	.90	.91		

For this study, ICU nurses reported an average structural empowerment score. Structural empowerment scores are determined within the CWEQ II by averaging the combined score of the six subscales. The total empowerment score was 3.34 out of 5.00 (means of all subscales) or 20.09 out 30.00 (cumulative score of all subscales) suggesting that participants felt moderately empowered (Laschinger et al., 2001). Higher scores are equivalent to higher perceived structural empowerment. These findings are similar in comparison to other studies that reported moderate

empowerment through structural empowerment scores (Armellino et al., 2010; Ganz et al., 2012). The following tables describe the frequencies of each subscale.

Table 2

CWEQ II: Subscale 1

How much of each kind of opportunity do you have in your present job?

		<u>None</u>		<u>Some</u>		A lot
1.	Challenging work	0 (0%)	3 (4.1%)	10 (13.7%)	28 (38.4%)	32 (43.8%)
N=73						
2.	The chance to gain new skills and knowledge on the job	1 (1.4%)	3 (4.1%)	15 (20.5%)	21 (28.8%)	33 (45.2%)
N=73						
3.	Tasks that use all of your own skills and knowledge	0 (0%)	5 (6.8%)	8 (11%)	26 (35.6%)	33 (45.2%)

N=72

The first subscale (Table 2) asked 'how much of each kind of opportunity do you have in your present job?' The majority of the participants reported their work was challenging within the ICU; they had the chance to gain new skills and knowledge on the job; and they were performing tasks within their job that used all of their own skills and knowledge. It is interesting to note that only one participant indicated 'none' for the 'chance to gain new skills and knowledge on the job'. Overall the mean score for this subscale is 4.18 out of 5.00 suggesting that participants felt they had opportunities in their present job.

Table 3

CWEQ II: Subscale 2

How much access to information do you have in your present job?

		<u>No</u> <u>Knowledge</u>		Some Knowledge		Know a lot
1.	The current state of the hospital	2(2.7%)	12(16.4%)	37(50.7%)	19(26.0%)	2(2.7%)
N=72						
2.	The values of top management.	7 (9.6%)	16(21.9%)	30(41.1%)	16(21.9%)	2(2.7%)
N=71						
3.	The goals of top management.	11 (15.1%)	20 (27.4%)	23(31.5%)	16 (21.9%)	2 (2.7%)
N=72						

The second subscale (Table 3) asked 'how much access to information do you have in your present job?' Most of the participants felt that had some knowledge of the current state of the hospital; they knew some of the values of top management; and they knew some to no knowledge of the goals of top management. Overall the mean score for this subscale is 2.88 out of 5.00 suggesting participants reported they had some access to information in their present job. These findings are interesting as typically ICU nurses are physically isolated from the rest of the hospital. That is to say, most ICU departments are physically located away from the other departments, on a floor by themselves. One might speculate that the ICU nurses who are heavily involved with the stressors of attempting to stabilize their critically ill patients do not necessarily

have the time or feel it is relevant to meet and discuss the current state or strategic plans of the facility.

Table 4

CWEQ II: Subscale 3

How much access to support do you have in your present job?

		None		Some		A lot
1.	Specific information about things you do well.	9(12.3%)	14(19.2%)	25(34.2%)	20(27.4%)	4(5.5%)
N=72						
2.	Specific comments about things you could improve	9 (12.3%)	14(19.2%)	27(37.0%)	15(20.5%)	8(11.0%)
N=73						
3.	Helpful hints or problem solving advice	5(6.8%)	16(21.9%)	27(37.0%)	17(23.3%)	8 (11.0%)
N=73						

The third subscale (Table 4) asked 'how much access to support do you have in your present job?' Most felt they received some information about things they do well; they received some specific about things they could improve; and they received some helpful hints or problem solving advice. Overall the mean score for this subscale is 3.01 out of 5.00 suggesting participants felt they received some access to support in their present job. These findings are interesting as previous research on Magnet Status hospitals has identified that having a

'supportive nurse manager and supervisor' is one of the eight Essentials of Magnetism within a Healthy Workplace Environment (Kramer & Schmalenberg, 2008).

Table 5

CWEQ II: Subscale 4

How much access to resources do you have in your present job?

		None		Some		A lot
1.	Time available to do necessary paperwork	3(4.1%)	8(11.0%)	24(32.9%)	29(39.7%)	9(12.3%)
N=73						
2.	Time available to accomplish job requirements	1(1.4%)	4(5.5%)	22(30.1%)	37(50.7%)	9(12.3%)
N=73						
3.	Acquiring temporary help when needed	7(9.6%)	13(17.8%)	23(31.5%)	22(30.1%)	8(11.0%)

N=73

The fourth subscale (Table 5) asked 'how much access to resources do you have in your present job?' Most felt they had some to a lot of time to do their necessary paperwork. This finding is interesting as ICU nurses' roles are heavily dependent on detailed documentation above and beyond what is expected for a nurse working on a medical or surgical ward. ICU nurses are expected to document such things as vital signs and urine output hourly, therefore it is not surprising that the majority of ICU nurses felt they had the time allotted to complete the necessary paperwork. The majority of participants also indicated they had some to a lot of time

to accomplish job requirements, and they had some to a lot of time to acquire temporary help when needed. However, it is interesting to note, almost 10% of participants indicated 'none' for 'acquiring temporary help when needed'. This may be due to a lack of or limited access to critical care float pools to assist when ICU nurse shortages arise. Overall the mean score for this subscale is 3.42 out of 5.00 suggesting participants felt that they received some access to resources in their present job.

Table 6

N=73

CWEQ II: Subscale 5

In my work setting / job:

		<u>None</u>				A lot
1.	The rewards for innovation on the job are	17(23.3%)	20(27.4%)	21(28.8%)	11(15.1%)	4(5.5%)
N=73						
2.	The amount of flexibility in my job is	3 (4.1%)	20(27.4%)	30(41.1%)	9(12.3%)	11(15.1%)
N=73						
3.	The amount of visibility of my work related activities within the institution is	11(15.1%)	20(27.4%)	25(34.2%)	11(15.1%)	6 (8.2%)

The fifth subscale (Table 6) asked participants to describe how much formal power they receive in their job. Here, less optimism is noted. Overall, the mean score for this subscale is

2.78 out of 5.00 suggesting participants had little to some access to formal power. About ¼ of participants (23.3%) indicated they received none to some reward for innovation on the job; they receive some flexibility in their job (41.1%); and they received some visibility of their work related activities within their job (34.2%). For "visibility", one might speculate this is due to the physical location of the ICU which is typically away from other areas of the hospital. Feelings of limited reward for innovations may be related to data from the third subscale (support) where participants indicated moderate access to support involving receiving feedback and guidance from others.

Table 7

<u>CWEQ II: Subscale 6</u>

How much opportunity do you have for these activities in your present job?

		None				A lot
1.	Collaborating on patient care with physicians	1(1.4%)	1(1.4%)	13(17.8%)	18(24.7%)	40(54.8%)
N=73						
2.	Being sought out by peers for help with problems	2 (2.7%)	2(2.7%)	6(8.2%)	30(41.1%)	32(43.8%)
N=72						
3.	Being sought out by managers for help with problems	15(20.5%)	15(20.5 %)	22(30.1%)	14 (19.2%)	7(9.6%)
N=73						
4.	Seeking out ideas from professionals other than physicians, e.g., physiotherapists, occupational therapists, dieticians	0 (0%)	6(8.2%)	18(24.7%)	19(26.0%)	30(41.1%)

N=73

The sixth subscale (Table 7) asked participants how much informal power participants received in their job. Overall the mean score for this subscale is 3.82 out of 5.00 suggesting

participants have some to a lot of access to informal power. The majority indicated that they collaborate a lot on patient care with physicians, and were sought out a lot by peers for help with problems. These results are not surprising as within the ICU a large amount of staff and physicians are readily accessible for each patient due to the complexity of their health needs. It is interesting to note however that participants were neutral when responding to how often they were sought out by managers for help with problems. One may infer this is either due to lack of management or lack of management interaction with nurses. This may be a pattern as it links with the findings from the support subscale and the item on "rewards for innovation" in the formal power subscale. For the most part, participants sought out ideas from professionals other than physicians. These findings are not surprising due to the collaborative team approach available within the ICU.

Table 8

CWEQ II: Global Empowerment Scale

		Strongly Disagree				Strongly Agree
1.	Overall, my current work environment empowers me to accomplish my work in an effective manner.	2(2.7%)	6(8.2%)	18(24.7%)	35(47.9%)	12(16.4%)
N=73						
2.	Overall, I consider my workplace to be an empowering environment.	7(9.6%)	9(12.3%)	20(27.4%)	26(35.6%)	11(15.1%)
N=73						

The two item global empowerment scale (Table 8) asked participants to assess their global empowerment. It is interesting to note that only 16.4% (item 1) and 15.1% (item 2) of participants strongly agree they are empowered to do their work and the workplace is an empowering environment respectively. Combining the adjacent column to "strongly agree" column indicated that 64% (item 1) and 50.7% (item 2) indicated the 2/3 and ½ of participants agreed that they were empowered to do their work and that the workplace was an empowering environment. It is difficult to interpret this Global Empowerment Scale because there are only two anchors: strongly disagree and strongly agree.

However, it is noted from the frequencies of six subscales that the mean scores for the formal power subscale (mean of 2.78, Table 12), the access to support subscale (mean of 3.01,

Table 10) and the access to information subscale (mean of 2.88, Table 9) indicate moderate empowerment. One might speculate the connections between having some access to information and support, and feeling a lack of formal power in their job provides more detail on empowerment compared with the Global Empowerment Scale.

Caring (Influencing Factor)

The 30 item Caring Efficacy Scale (CES) based on Watson's Transpersonal Theory of Caring and Bandura's Self-efficacy Theory measures how nurses perceive their ability to express caring behaviours with patients (Coates, 1997). In the ICU, patients are typically unable to recall the events during their stay, therefore a scale measuring patient's perspective of caring would not have been useful for this study. The CES was included in this study because it examines nurses' perceived ability to establish a caring relationship with a patient. Participants were asked to rate how they felt about each statement on a six point Likert scale. The content validity was previously established by Watson's "carative" factor (Coates, 1997) Cronbach's alpha was previously reported as 0.88 (Coates, 1997). This study reported a Cronbach's alpha of 0.91. For this study, the majority of participants indicated a high perception of their ability to express caring behaviours (mean score of 4.97 out of 6). The CES has been used in nursing research, predominately within unpublished master's thesis or doctoral dissertations. Amendolair (2012) is the only published study that used the CES along with the Index of Work Satisfaction (IWS) amongst nurses working in medical-surgical units in North and South Carolina and reported a direct association between caring and job satisfaction. The CES has a 6 point Likert scale from strongly disagree to strongly agree. A collapsed version is reported here where strongly disagree and moderately disagree were combined as "disagree". Slightly disagree and slightly agree are

combined as "neutral" and moderately agree and strongly agree were combined into "agree'. See

Appendix B for the complete univariate results from the CES without collapsed categories.

Bivariate and multivariate analyses were done with the complete (not collapsed version). See

Table 9 for the frequencies using the collapsed categories.

Table 9

Caring Efficacy Scale

		<u>Disagree</u>	<u>Neutral</u>	Agree
1.	I do not feel confident in my ability to express a sense of caring to my clients/ patients.	61(83.6 %)	5(6.8%)	6(8.2%)
N=72				
2.	If I am not relating well to a client / patient, I try to analyze what I can do to reach him/ her.	10(13.6%)	19(26.0%)	43(58.9%)
N=72				
3.	I feel comfortable in touching my clients / patients in the course of care giving.	5(6.8%)	8(11.0%)	60(82.2%)
N=73				
4.	I convey a sense of personal strength to my clients / patients.	3(4.1%)	17(23.2%)	53(72.6%)
N=73				
5.	Clients / patients can tell me most anything and I won't be shocked.	2(2.8%)	13(17.8%)	58(79.4%)
N=73				
6.	I have an ability to introduce a sense of normalcy in stressful conditions.	5(6.9%)	15(20.5%)	53(72.6%)
N=73				
7.	It is easy for me to consider the multifacets of a clients' patient's care, at the same time as I am listening to them	3(4.1%)	20(27.3%)	50(68.5%)
N=73				
8.	I have difficulty in suspending my personal beliefs and biases in order to hear and accept a client / patients as a person.	52(71.2%)	15(20.5%)	6(8.2%)
N=73				
9.	I can walk into a room with a presence of serenity and energy that makes clients / patients feel better.	5(6.9%)	19(26%)	49(67.1%)
N=73				

	<u>Disagree</u>	Neutral	Agree
10. I am able to tune into a particular client / patient and forget my personal concerns.	3(4.1%)	17(23.3%)	53(72.6%)
N=73			
11. I can usually create some way to relate to most any client / patient.	3(4.1%)	17(23.3%)	53(72.6%)
N=73			
12. I lack confidence in my ability to talk to clients / patients from backgrounds different from my own.	62(85.0%)	6(8.2%)	5(6.8%)
N=73			
13. I feel if I talk to clients / patients on an individual, personal bias, things might get out of control.	57(78.1%)	12(16.4%)	3(4.1%)
N=72			
14. I use what I learn in conversations with clients / patients to provide more individualized care.	6(8.2%)	10(13.7%)	57(78.1%)
N=73			
15. I don't feel strong enough to listen to the fears and concerns of my clients / patients.	66(90.4%)	4(5.5%)	3(4.1%)
N=73			
16. Even when I'm feeling self-confident about most things, I still seem to be unable to relate to clients / patients.	60(82.2%)	8(10.9%)	4(6.8%)
N=73			
17. I seem to have trouble relating to clients / patients.	67(91.8%)	5(6.9%)	0(0%)
N=72			
18. I can usually establish a close relationship with my clients / patients.	9(12.4%)	20(27.4%)	44(60.3%)
N=73			
19. I can usually get patients / clients to like me.	7(9.6%)	14(19.1%)	52(71.2%)
N=73			

	<u>Disagree</u>	<u>Neutral</u>	<u>Agree</u>
20. I often find it hard to get my point of view across to patients / clients when I need to.	59(80.8%)	10(13.7%)	4(5.5%)
N=73			
21. When trying to resolve a conflict with a client / patients, I usually make it worse.	65(89.0%)	7(9.6%)	1(1.4%)
N=73			
22. If I think a client / patient is uneasy or may need help, I approach that person.	4(5.5%)	17(23.3%)	48(65.7%)
N=69			
23. If I find it hard to relate to a client / patient, I'll stop trying to work with that person.	58(79.5%)	14(19.2%)	1(1.4%)
N=73			
24. I often find it hard to relate to clients / patients from a different culture than mine.	63(86.3%)	7(9.5%)	3(4.1%)
N=73			
25. I have helped many clients / patients through my ability to develop close, meaningful relationships.	10(13.7%)	28(38.4%)	35(48%)
N=73			
26. I often find it difficult to express empathy with clients / patients.	58(79.4%)	11(15.1%)	4(5.5%)
N=73			
27. I often become overwhelmed by the nature of the problems clients / patients are experiencing.	59(80.8%)	13(17.8%)	1(1.4%)
N=73			
28. When a client / patient is having difficulty communicating with me, I am able to adjust to his / her level.	3(4.1%)	18(24.7%)	51(69.9%)
N=72			
29. Even when I really try, I can't get through to difficult clients / patients.	54(74%)	16(21.9%)	3(4.1%)
N=73			

	<u>Disagree</u>	<u>Neutral</u>	<u>Agree</u>
30. I don't use creative or unusual ways to express caring to my clients / patients.	45(61.6%)	18(24.6%)	9(12.3%)

N = 72

Half of the participants reported confidence in their ability to express a sense of caring to their patients across scale items. Generally speaking, the participants disagreed with negative statements about caring ability and agreed with positive statements about caring ability. One item seems to stand out, that is, the third item, "I feel comfortable touching my clients/patients in the course of caregiving". Combining the "disagree" and "neutral" categories means that 17.8% were not comfortable touching their patients. Touch is an essential element of nursing, especially within the ICU where most of the patients are bedbound and may be deconditioned requiring physical support to perform basic activities of daily living such as washing their hair, and repositioning them in bed. One might make a few speculations about discomfort with touching. It may be that patients in ICU have serious or even life-threatening infections and even with standardized techniques, nurses may be uncomfortable with touch. Patients in ICU may be disadvantaged people in society, homeless, unkempt, lacking medical contact and care, and nurses may be uncomfortable touching these patients. Another speculation is that ICU nurses may self-select into ICU because they are task-orientated or technology keen and their desire to touch patients is perhaps less so. It is uncertain why about 18% of participants would be uncomfortable touching their patients.

The majority of participants reported that they convey a sense of strength to their patients. They also stated that patients could likely tell them anything without causing surprise.

75

The majority of participants also reported that they are able to react calmly in a stressful environment. However 6.9% of participants are unable to remain calm in a stressful environment. This is interesting because ICU's are known to consistently be a stressful environment.

The majority of participants reported they are able to assess a patients care needs while listening to them. For the most part, participants reported they did not have difficulty separating their personal biases when providing care to a patient. They stated they could calm a client just by their presence in the room, and they could focus on their patients without personal distractions interfering. The majority of participants also stated confidence to talk to patients from different backgrounds.

The majority of participants did not report that talking to patients about personal issues would cause a problem. They also stated they could learn how to care for their patients by talking to them. For the most part, participants felt they were strong enough to listen to the fears of their patients. This is also another component quite pertinent in the ICU. Patients are critically ill and their fears are affected by their possibility of dying. An ICU nurse needs to incorporate this element of caring within their practice.

Half of the participants reported also felt they are able to establish a close relationship with their patient. The majority of participants stated they can get their clients to like them, and they were able to get their point across when needed to a patient. The majority of participants reported they were able to resolve conflict with a patient, and could also approach a patient if they needed help. The majority of participants stated they will continue to work with a patient despite having difficulty relating to them.

The majority of participants reported they helped their patients by the close relationship they were able to develop with them, and they did not find it difficult to express empathy with their patients. The majority of participants stated they did not feel overwhelmed by problems experienced by patients. The majority of participants reported they could adjust to the patient's level if issues arose with communication. The majority of participants reported that they could get through to a difficult patient, and could use creative ways to express caring to their patients. However 12.3% agreed with the statement, "I don't use creative or unusual ways to express caring to my clients/patients." This was an interesting finding as within the ICU, patients are quite often connected to various machines and monitors. In order to communicate with patients who are intubated and chemically sedated, ICU nurses need to be creative when providing care to ensure patients are comfortable. ICU nurses rely on what they may perceive as appropriate to determine the patients comfort; and to use cues such as respiration rate, heart rate and / or blood pressure as indicators of the patients comfort. Also, when patients are intubated and their speech is affected, ICU nurses may use picture boards or white boards in a creative way to communicate with their patients. It is significant to note that the word 'relate' came up in six separate questions within the CES. One may conclude that how well a nurse perceives they relate to their patient is directly associated to their perceived ability to care.

Job Satisfaction (Intermediary Factor)

A total of 72 of the 73 participants responded to the job satisfaction single item question. Four participants (5.5%) stated they were 'not at all satisfied' with their job, and five participants (6.8%) were slightly dissatisfied with their job. Fifteen participants (20.5%) were 'neutral', 28 participants (38.4%) were slightly satisfied with their job, and 20 participants (27.4%) were very

satisfied with their job. Overall, if the frequencies for dissatisfied and those for satisfied are combined, it appears that 12.3% were dissatisfied, 20.5% were neutral, and 65.8% were satisfied. Thus, about 2/3rds of nurses indicated that they were satisfied with their jobs.

Previous research suggests that most ICU nurses are satisfied with their jobs (Galletta et al., 2014; Myrhen et al., 2013). Studies on job satisfaction within the ICU have reported a direct association to: recognition of job performance, increased communication, increased experience, increased supervision, easier workload, and humor (Wu et al., 2014; Mahon et al., 2014; Li & Lambert, 2008; Myhren et al., 2013). However unlike the studies by Wu et al. (2014), Li & Lambert (2008), Li & Lambert (2008), and Myhren et al. (2013), this study did not collect data on why the ICU nurses had a particular perceived level of job satisfaction. This is a limitation to the study that may be beneficial to incorporate into future research.

Thesis Research Objectives

Objective #1 (Outcome)

The first objective was to compare the reasons why ICU nurses' intend to leave or intend to stay within the ICU. A qualitative analysis was used to interpret the results of nurses' intent to leave and intent to stay. A total of 73 participants answered the intent to leave and intent to stay question. This study identified that 12 nurses (16.4% of the participants) currently working in the ICU intended to leave. These findings are similar to other research which indicated 15%-50% of ICU nurses report their intention to leave (Stone et al., 2006; Stone et al., 2009; Lai et al., 2007; VanDam et al., 2012; Liu et al., 2013).

Participants provided 10 comments identifying reasons why they intended to leave. Five themes were identified from the responses provided: 'shift work', 'not enough staffing', 'inappropriate clients and lack of autonomy', 'completing graduate studies', and 'compassion burnout'. Participants were free to provide as little or as much information as they chose so it is not completely clear what the some of these reasons meant. Some speculation was required.

'Shift work' likely referred to the hours required to work in the ICU not accommodating to their lifestyle or family life. Shift work may negatively affect personal and family relationships. This may lead to ICU nurses' intent to leave especially if their family life is not able to accommodate the shift work hours. Three participants cited 'shift work' as their reason to leave. Previous research indicated that work, personal or family reasons, retirement, and poor working conditions were reasons nurses intended to leave the ICU (Stone et al., 2006; Stone et al., 2009; Blake et al., 2013).

Two participants indicated that 'not enough staffing' as their reason for intending to leave. 'Not enough staffing' likely referred to the staff to patient ratio which might not allow staff to provide the care they felt patients required in order to improve. Two participants indicated 'inappropriate clients and lack of autonomy'. 'Inappropriate clients' likely referred either to patients who did not want to be placed in the ICU when they became ill, or to patients who were not sick enough to require an ICU admission. 'Lack of autonomy' might refer to nurses' or patients' lack of independence to make decisions. A sense of autonomy was mentioned within previous research as having an inverse relationship with intent to leave (Sawatzky et al., 2015; Hauck et al., 2011). Two participants indicated 'completing graduate studies' was the reason they intended to leave. 'Completing graduate studies' likely referred to

staff who intended to leave to complete a graduate study program or were currently in a graduate program. Leaving work to pursue higher education does not necessarily reflect negatively on the workplace environment. 'Compassion burnout' likely referred to this staff member recognizing a change in the desire to help those who are critically ill. The stress in the ICU is high due to the acuity of the patients. One may infer that if ICU nurses do not feel they have the ability to destress, they may become burnt out. While compassion burnout is not a surprising find, it is perhaps more surprising that only one participant identified this as the reason they intended to leave. Please see Table 10 for the reasons participants stated they intended to leave.

Table 10

Intent to Leave Reasons

<u>Themes</u>	<u>n=</u>
Shift work	3
Not enough staffing	2
Inappropriate clients, and lack of autonomy	2
Completing graduate studies	2
Compassion burnout	1

This study also reported 61 (83.6% of the participants) intended to stay in the ICU. This contrasts with previous research which reported only 28% of ICU nurses intended to stay (Liu et al., 2013). It is important to note within Liu et al.'s (2013) study that over 60% did not indicate their intent to leave or stay leaving one to ponder what the results might have been if the 40% who did indicate a preference had formed the base for analysis.

Within this study, an additional 44 comments were provided by participants identifying reasons participants intended to stay. Six themes were identified from the responses provided:

'love what I do', 'close to retirement or retired', 'enjoy co-workers', 'lifestyle', 'experience', and 'requirement to work in Emergency Room (ER)'. Of interest, the themes derived for reasons for stay are different from those given as reasons to leave. 'Love what I do' likely refers to the staff enjoying their work environment and the care they provide to patients. Seven of the 18 participants who referred to 'loving what they did' specifically said the word 'love' in reference to their job and was why they intended to stay. This study also found 'close to retirement or retired' as a reason ICU nurses intended to stay. This finding is rather ironic, as it was also identified in this study as also a reason ICU nurses intended to leave. One might imagine that a nurse with a short period of time before retirement would state this as a reason to leave, and those with perhaps a longer period of time before retirement would say that is a reason to stay. 'Close to retirement or retired' likely refers to nurses who remain in their current position because they do not feel the desire to transition to new position before they retire from nursing. Seven participants felt 'close to retirement or retired' was the reason they intended to stay. It is also interesting to note that two participants were retired but remained as casual employees within the ICU. We might infer that they loved what they did and were not ready to leave, or it may have been an economic necessity.

Seven participants identified 'enjoy co-workers' as the reason they intended to stay. 'Enjoy co-workers' likely refers to the positive staff relationships with their colleagues that reinforced their intention to stay in their current position. A positive relationship with staff was identified as a reason to stay in the ICU in the study by Van Dam et al. (2012). In that study, ICU nurses indicated that the social supports derived from colleagues, educators and supervisors enhanced the desire to stay in the current position (Van Dam et al., 2012). Certainly for the informal power subscale of the CWEQ II, participants indicated having some to a lot of informal

power (mean of 3.82 out of 5.) and the items in this subscale included ones that emphasized connections, communication and using information channels with physicians, peers, managers and members of the health care team.

'Lifestyle' likely refers to flexibility in their current work hours that allowed them balance their work and personal life or family life. Similar research identified socio demographic factors such as the hours and overtime worked affected intent to stay (Nowrouzi et al., 2016).

Seven participants stated 'lifestyle' was the reason they intended to stay in the ICU.

'Experience' likely refers to the staff's enjoyment of continually learning within the ICU. One may infer that if educational opportunities are not provided and utilized by ICU nurses, then the ICU nurses may seek alternative education, similar to the two participants who were pursuing their graduate studies and intended to leave. Four participants stated within the 'experience theme' they were 'still challenged / growing', needing to 'gain more experience', able to provide 'holistic care', and continue to 'learn daily' and the reason they intended to stay in the ICU. 'Requirement to work in ER' likely refers to the expectation that staff need to work in the ICU before they are allowed to work in the emergency. One participant stated this was the reason they intended to stay in the ICU. This is interesting to note as only one person indicated this, and it is not common knowledge for that ICU experience is preferred for hiring in the emergency room. See Table 11 for the reasons participants stated they intended to stay.

Table 11:

Intent to Stay Reasons: Themes n= Love what I do 18 Close to retirement or retired 7 Enjoy co-workers 7 Lifestyle 7 Experience 4 Requirement to work in the ER 1

Objective #2

The second objective was to explore the relationships between empowerment, caring, socio demographic factors, and job satisfaction. These are the influencing factors in the CFPNR model. As indicated in chapter 4, the distribution of variables in this study failed to follow the normality assumption so non-parametric tests were used to address the research objectives and p-values are reported to show the strength and significance of correlation between the two variables. If p-values are less than 0.05, it means that the correlation between the two variables is significant compared with no correlation.

The findings on Table 18 indicate a high correlation between empowerment (CWEQII) and job satisfaction (Spearman's r_s = 0.568, n=72, p<.0001). Laschinger et al. (2014) also reported a direct association between empowerment and job satisfaction among medical/surgical and critical care nurses in Ontario. Their study examined the relationships among empowerment, job satisfaction, self-esteem, self-efficacy, emotional stability and locus of control but intent to leave or stay was not measured.

There was a moderate correlation between caring and job satisfaction (Spearman's r_s =0.263, n=73, p<.05). Amendolair (2012) using the CES, reported similar findings in her study of medical/ surgical nurses in North and South Carolina. This was the only study using the CES that could be found in the published literature; use of the CES currently is found primarily in unpublished Master's and Doctoral thesis. Sawatzky and Enns (2012) included caring in their CFPNR model-based research on emergency room nurses but the concept of caring was measured indirectly through compassion fatigue and compassion satisfaction. While the concept of caring has been a focus of research, more often the studies take a phenomenological approach, seeking to learn the meaning of caring.

The findings on Table 12 also indicate a high correlation between age of participants and number of years of experience as an ICU nurse (Spearman's *rs*=0.775, n=73, p<.000). Previous studies of nurses' intent to leave or empowerment have also reported a direct association between nurses' age and years of experience (Ganz & Toren, 2014; Armellino et al., 2010). Intuitively, this finding is not surprising. The range of years of experience for this sample of ICU nurses was 1 to 43 years with a mean of 11 (median =8). Although turnover in Canadian ICU nurse has been reported as 26.% (O'Brien-Pallas et al., 2010), in this study's sample of ICU nurses, 16% indicated that they intended to leave. Please see Table 18 for the correlations and significant findings.

Table 12

Spearman Correlation Coefficients
Prob > |r| under H0: Rho=0
Number of Observations

1-6

					<u>Job</u>
	<u>Caring</u>	<u>CWEQII</u>	<u>Age</u>	ICU Exp	Satisfaction
Caring	1.00	0.20	0.15	0.26	0.31
		(0.09)	(0.21)	(0.02)	(0.00)
Empowerment	0.20	1.00	0.09	0.20	0.55
	(0.09)		(0.44)	(0.09)	(0.00)
Age	0.15	0.09	1.00	0.81	0.01
	(0.21)	0.44		(0.00)	(0.92)
Years of Experience	0.26	0.20	0.81	1.00	0.05
	(0.02)	(0.09)	(0.00)		(0.69)
Job Satisfaction	0.31	0.55	0.01	0.05	1.00
	(0.00)	(0.00)	(0.92)	(0.69)	

Objective #3 and Objective #4

Objectives #3 and #4 are discussed together. The third objective was to examine the relationship between job satisfaction and intent to leave or intent to stay. To examine the bivariate relationship between job satisfaction and intent to leave or intent to stay, the "intent to leave" group and the "intent to stay" group were treated as independent samples. The Mann-Whitney U, a non-parametric test was used to obtain the probability that two independent

samples were from the same population (McKillup, 2012). Job satisfaction had been measured as a single Likert item with values of 1 to 5. Results indicated that the 'intent to leave group' scored lower on job satisfaction (mean of 2.64) compared with the 'intent to stay' group (mean of 3.94) and these differences were statistically significant (p<0.001).

The fourth objective was to examine the overall relationships among empowerment, caring, socio-demographic factors, job satisfaction and intent to leave or intent to stay. This objective encompassed the entire CFPNR model which suggested the intermediary factors (for this study, job satisfaction) may intercede with influencing factors (for this study, age, years of experience in ICU) with the intent to leave/ intent to stay, the outcome variable for this study. (Education, a categorical variable was not included in the model.) Bivariate analyses (using Spearman's r_s) had indicated that: age and years of experiences were directly correlated; caring and job satisfaction were directly correlated; and empowerment and job satisfaction were directly correlated. Bivariate analyses (using Mann-Whitney U) had indicated a direct relationship between job satisfaction and intent to stay.

"Logistic regression is used to determine which variables affect the probability of a particular outcome" (Munro, 2001, p.268). For this study, multivariate analysis (an ordinal logistic regression model) initially examined the influencing factors (age, years of experience, empowerment and caring) in relation to the outcome variable, intent to leave/intent to stay, and only empowerment was significantly related to intent to stay (p<0.00). Please see Table 13 (Model 1).

Table 13

Model 1 and 2: Probability of intent to leave / intent to stay

	Model 1		Model 2		
	Odds Ratio	p-values	Odds Ratio	p-values	
	[95% Confidence Interval]		[95% Confidence Interval]		
Age	0.928	0.21	0.875	0.12	
	[0824, 1.045]		[0.740, 1.035]		
Years of Experience	1.044	0.51	1.044	0.62	
	[0.917, 1.189]		[0.880, 1.238]		
Caring	0.737	0.58	1.340	0.63	
	[0.244, 2.229]		[0.400, 4.485]		
Empowerment	0.131	0.00	0.448	0.34	
	[0.033, 0.524]		[0.083, 2.405]		
Job Satisfaction			0.235	0.00	
			[0.083, 0.663]		

The final step of the logistic regression analysis was to place the intermediary factor, job satisfaction into model along with influencing factors. When this was done, empowerment was no longer statistically significant. The only factor in the CFPNR model that remained statistically significant in relation to the outcome (intent to leave/intent to stay) was job satisfaction. Please see Table 13 (Model 2).

Although caring and empowerment were statistically significantly associated with job satisfaction when bivariate analyses were performed and empowerment was statistically significantly associated with intent to stay in the earlier steps of the regression model, once job satisfaction was entered into the model, empowerment became not significant. Job satisfaction remained as only statistically significant relationship with intent to stay.

Conclusion

The CFPNR model suggested a relationship among influencing and intermediary factors and outcome. This study attempted to explore and compare why ICU nurse intend to leave or intend to stay in their positions (research objective #1). Findings indicated that the reasons are different and five themes were identified to describe why ICU nurses intend to leave their current position, and six themes were identified to describe why ICU nurses intend to stay in their current position. This study introduced empowerment and caring as potential influencing factors in the CFPNR. Bivariate relationships between job satisfaction (intermediary factor) and caring and empowerment (influencing factors) were statistically significant (research objective#2). Job satisfaction and the outcome variable of intent to leave/intent to stay were statistically significant with a direct association between job satisfaction and intent to stay (research objective #3). The final ordinal logistic regression model indicated that job satisfaction was the only variable having a statistically significant relationship with the outcome variable; job satisfaction is directly associated with intent to stay (research objective #4). In this study, job satisfaction was measured with a five point Likert scale ranging from not at all satisfied to very satisfied. This single item measure of job satisfaction has been used by others (Sawatzky et al., 2012) but it is not helpful in

identifying what kinds of qualities of worklife contribute to job satisfaction. For this study, it is suggestive that empowerment and to a lesser extent, caring might be related to job satisfaction.

Chapter Five: Discussion

89

The concepts of caring and empowerment related to job satisfaction, and intent to leave or intent to stay for ICU nurse have not been thoroughly researched. The focus of this study was to identify the relationships among these concepts. Specifically the research objectives were:

- 1. To compare the reasons why ICU nurses intend to leave or intend to stay.
- 2. To explore the relationships among empowerment, caring, socio demographic factors, and job satisfaction.
- 3. To examine the relationship between job satisfaction and intent to leave or intent to stay.
- 4. To examine the overall relationships among empowerment, caring, sociodemographic factors, job satisfaction, and intent to leave or intent to stay.

Discussion

As indicated earlier, although caring and empowerment were statistically significantly associated with job satisfaction when bivariate analyses were performed, and empowerment was statistically significantly associated with intent to stay in the earlier steps of the logistic regression model, once job satisfaction was entered, empowerment became not significant. Only job satisfaction was statistically significantly associated with intent to stay.

In this study, job satisfaction was measured with a five point Likert scale ranging from not at all satisfied to very satisfied. This single item Likert measure of job satisfaction has been used by others (Sawatzky et al., 2012) but a single item is not helpful in identifying what kinds

of qualities of work life contribute to job satisfaction. This could have been addressed by having a follow-up open-ended item asking about what contributed most to having job satisfaction. For the items on intent to leave and intent to stay, open-ended questions were posed; "If yes, why do you intend to leave/stay in your position. You can give more than one answer." However, these open-ended questions were fraught with their own problems. It was difficult to decipher what was meant by "shift work" for example, and being an anonymous internet-based questionnaire, there was no opportunity to seek clarification.

For this study, it is suggestive that empowerment and to a lesser extent, caring might be related to job satisfaction. Certainly, the frequencies for the subscales of the CWEQ II (empowerment) showed some areas where nurses indicated less power, including having access to support and information, and formal power. In particular within the formal power, for the item that asked, "The rewards for innovation on the job are ____", where almost ¼ of participants indicated "none". The mean value of the formal power subscale was the lowest of all of the subscales (mean value of 2.78 out of 5.00) meaning little to some access to formal power. The use of the CWEQ II is not widespread and most studies have come from the work of Laschinger and her colleagues whose work is focused on nurses in Ontario. That being said, the CWEQ II seemed to perform well in this study with good reliability (Cronbach's alpha) and a statistically significant bivariate relationship with job satisfaction.

The CES has not been widely used but for this study it performed well in terms of reliability (Cronbach's alpha). One item drew attention and that was the item where 17.8% of participants either disagreed or were neutral in response to the statement, "I feel comfortable in

91

touching my clients/patients in the course of caregiving". While several speculations have been for this finding, the only way to delve into it would be through a qualitative approach.

Finally the question arises about the usefulness of the CFPNR model. For this study, the CFPNR model was useful. The premise of the CFPNR is that "influencing factors" such as organizational climate may be related to the "intermediary factors" such as job satisfaction, and both the influencing factors and intermediary factors may influence the primary outcome, that is intent to leave (Sawatzky & Enns, 2012; Sawatzky et al., 2015). For this study, the model provided a framework for testing how empowerment and caring might theoretically fit into the model and the multivariate findings indicated that job satisfaction had primacy in relation with the intent to stay. The task remains to explore and discover what kinds of qualities of worklife contribute to job satisfaction for nurses.

Limitations

Three limitations have been identified. First and foremost is the response rate. The response rate, although considered average for an external audience, was only 12% of the total population of registered ICU nurses in Manitoba. In retrospection, perhaps an enticing incentive for participation, such as a draw for an iPad, would have increased the response rate. No inducement for participation was provided in this study. Another incentive might have been to link the reporting of findings directly to leadership in the Winnipeg Regional Health Authority, that is, to ICU managers, and the regional director of ICU. The researcher contacted the regional director who is interested in the findings but support among managers was not garnered by the researcher so this assurance could not be provided. The fact remain that the vast majority of ICU

92

nurses chose not to participate which is their prerogative but it is unclear how results might have been different had the response rate been more representative.

A second limitation was the related to the measurement of a major variable, job satisfaction as a single item, five point Likert measure. As indicated earlier, this measure has been used in studies on nurses' intent to leave but a single item is not helpful in identifying what kinds of qualities of work life contribute to job satisfaction. This could have been addressed by having a follow-up open-ended item asking about what contributed most to having job satisfaction but an anonymous internet survey questionnaire may not be the best methodology to explore the qualities of work life that contribute to job satisfaction. This requires a methodology that includes qualitative approach and one that allows for clarification and dialogue between the researcher and participants.

A third limitation relates to the decision to follow-up the question on nurses' intent to leave and intent to stay in their position. The questions asked, "If yes, why do you intend to leave/stay in your position. You can give more than one answer." As indicated earlier, these open-ended were difficult to decipher and with an anonymous internet-based questionnaire, there was no opportunity to seek clarification. It may be that as with the measurement of job satisfaction, as discussed above, a different methodology is needed to elicit the reasons why ICU nurses' intend to leave or stay in their positions.

Practice Implications

The findings from this study are suggestive in relation to practice implications. Nursing shortages continue to be prevalent within the ICU setting and this research suggests some ways to proceed. Clearly, job satisfaction is critical in retaining ICU nurse but manager and regional directors must work to identity what contributes to job satisfaction. Bivariate analyses indicate that empowerment and caring were statistically associated with job satisfaction. These are two areas that might be further explored.

Analysis of CWEQ II suggested that ICU nurses' access to information, support and formal power could be improved. This is based on univariate analysis but there is some confirmation in that at one point in the regression process, empowerment was statistically significantly associated with intent to stay.

Exit interviews with nurses who leave their positions in ICUs might shed light on why nurses leave and lead to ways of managing or improving whatever areas are identified for improvement. This is what was attempted in this study with the open-ended items on reasons for nurses' selecting intent to leave or intent to stay in their positions.

Recommendations for Future Research

Future research is essential in developing a better understanding of ICU nurses' intent to leave and intent to stay in their positions. Longitudinal studies would be ideal. With longitudinal panel studies, a group of ICU nurses who intend to leave and a group of ICU nurses who intend to stay in their position could be followed to learn more about the factors of job satisfaction and what contributes to it. This would help immensely to see the link between intent to leave and

actually leaving and the link between intent to stay and actually staying in the position. A qualitative and quantitative approach could be taken with qualitative work on the qualities of work life that contribute to job satisfaction and the reasons for intent to leave and intent to stay. Quantitative work could include empowerment, caring and other measures related to stress in the workplace, social support and access to formal power.

The CWEQ II and CES are relatively new to nursing research but both of them demonstrate good reliability (Cronbach's alpha) and some fit with job satisfaction and perhaps with intent to leave and intent to stay. The CFPNR model is also relatively new but seems to offer a means to include concepts that seem relevant to intent to leave/intent to stay outcomes as either influencing or intermediary factors.

.

References

95

- Aiken, L., Clarke, S., Sloane, D., Sochalski, J., & Silber, J. (2002). Hospital nurse staffing and patient mortality, nurse burnout, and job dissatisfaction. *JAMA*, 288(16). 1987-1993.
- Aiken, L., & Patrician, P. (2000). Measuring organizational traits of hospitals: the revised nursing work index. *Nursing Research*, 49. 146-153. Doi 10.1097/00006199-200005000-00006.
- Aiken, L., Smith, H., & Lake, E. (1994). Lower medicare mortality among a site of hospitals known for good nursing care. *Medical Care*, 32(8). 771-787.
- Alfonso, V., Allison, D., Rader, D., & Gorman, B. (1996). The extended satisfaction with life scale: Development and psychometric properties. *Social Indicators Research*, *38*. 275 301. Doi: 10.1007/BF00292049.
- Amendolair, D. (2012). Caring behaviours and job satisfaction. *Journal of Nursing Administration*, 42(1). 34-39. doi:10.1097/NNA.0b013231823c18af.
- Armellino, D., Griffin, M., & Fitzpatrick, J. (2010). Structural empowerment and patient safety culture among registered nurses working in adult critical care units. *Journal of Nursing Management*, 18. 796-803. doi:10.1111/j.1365-2834.2010.01030.x.
- Armstrong, K., & Laschinger, H. (2006). Structural empowerment, magnet hospital characteristics, and patient safety culture: Making the link. *Journal of Nursing Care Quality*, 21(2). 134-142.

Armstrong, Laschinger, & Wong. (2009). Workplace empowerment and magnet hospital charecteristics as predictos of patient safety climate. *Journal of Nursing Care Quality*, 24(1). 55-62. doi 10.1097/NCQ0b013e31818f5506.

- Baernholdt, M., & Mark, B. (2009). The nurse work environment, job satisfaction and turnover rates in rural and urban nursing units. *Journal of Nursing Management*, 17. 994-1001. doi: 10.1111/j.1365-2834.2009.01027.x.
- Blake, N., Leach, L., Robbins, W., Pike, N., & Needleman, J. (2013). Healthy work environments and staff nurse retention: The relationship between communication, collaboration, and leadership in pediatric intensive care unit. *Nursing Administration Quarterly*, *37*(4). 356-370. doi: 10.1097/NAQ.0b013e3182a2fa47.
- Brilowski, G., & Wendler, M. (2005). An evolutionary concept analysis of caring. *Journal of Advanced Nursing*, 50(6). 641-650.
- Browning, A. (2013). CNE Article: Moral distress and psychological empowerment in critical care nurses caring for adults at end of life. *American Journal of Critical Care*, 22(2). 143-151. doi: 10.4037/ajcc2013437.
- Campbell, D. (2013). Spirituality, stress, and retention of nurses in critical care. *Leadership Dimension*, 32(2). 78-83. doi: 10.1097/dd.0b013e31828083a4.
- Carspecken, P. (1996). Critical ethnography in educational research: a theoretical and practical guide. New York, NY: Sage.

Carver, C. (1997). You want to measure coping but your protocol's too long: consider the brief cope. *International Journal of Behavioural Medicine*, *4.* 92-100.

- Castaneda, G., & Scanlan, J. (2014). Job satisfaction in nursing: A concept analysis. *Nursing Forum.* 1-9. doi: 10.1111/nuf.12056.
- Chaboyer, W., Chamberlain, D., Hewson-Conroy, K., Grealy, B., Elderkin, T., Brittin, M., MchCutcheon, C., Longbottom, P., & Thalib, L. (2013). CNE article: Safety culture in Australian intensive care units: Establishing a baseline for quality improvement.

 *American Journal of Critical Care, 22. 93-102. doi: 10.4037/ajcc2013722.
- Chandler, G. (1986). The relationship of nursing work environment to empowerment and powerlessness. Salt Lake City, UT: University of Utah.
- Choi, J., Bakken, S., Larson, E., Du, Y., & Stone, P. (2004). Perceived nursing work environment of ICU nursesl. *Nursing Research*, *53*(6). 370-378.
- CIHI. (2013). Regulated nurses: Canadian trends, 2007-2011. Retrieved from https://secure.cihi.ca/free_products/Regulated_Nurses_EN.pdf
- CIHI. (2015). Regulated nurses, 2014. Retrieved from https://secure.cihi.ca/free_products/RegulatedNurses2014_Report_EN.pdf
- City of Winnipeg. (2016). Census Information. Retrieved from http://winnipeg.ca/census/2011/
- Coates, C. (1997). The caring efficacy scale: Nurses' self-reports of caring in practice settings. *Advanced Practice Quarterly*, *3*(1). 53-59.

College of Registered Nurses of Manitoba. (2014). Self-regulations. Retrieved from http://www.crnm.mb.ca/aboutus-selfregulation.php

- Conger, J., & Kanungo, R. (1988). The empowerment process: Integrating theory and practice.

 **Academy of Management Review, 13(3), 471-482.
- Coomber, B., & Barribal, K. (2007). Impact of job satisfaction components on intent to leave and turnover for hospital-based nurses: A review of the research literature. *International Journal of Nursing Studies*, 44(2). 297-314.
- Corley, M. (1995). Moral distress of ICU nursesl. *American Journal of Critical Care*, 4(4). 280-285.
- Corley, M., Elswick, R., Gorman, M., & Clor, T. (2001). Development and evaluation of a moral distress scale. *Journal of Advanced Nursing*, *33*(2). 250-256.
- Cortina, L., & Magley, V. (2009). Patterns and profiles of response to incivility in the workplace. *Journal of Occupation Health Psychology*, 14(3). 272-288.
- Disch, J. (2002). Creating healthy work environments. Creative Nurse, 8(2). 3-4.
- Doran, D., Duffield, C., Rizk, P., Nahm, S., & Chu, C. (2014). A descriptive study of employment patterns and work environment outcomes of specialist nurses in Canada. *Clinical Nurse Specialist*, 28 (2). 105-114. doi: 10.1097/NUR.000000000000031.
- Enns, C., & Sawatzky, J. (2016). Emergency nurses' perspectives: Factors affecting caring. *Journal of Emergency Nursing*, 42(3). 240-245. doi: 10.1016/j.jen.2015.12.003.

Faller, M., Gates, M., Georges, J., & Connelly, C. (2011). Work-related burnout, job satisfaction, intent to leave, and nurse-assessed quality of care among travel nurses. *The Journal of Nursing Administration*, 41(2). 71-77.

- Fishbein, M., & Ajzen, I. (1975). *Belief, attitude, intention, and behaviour*. Reading, MA: Addison-Wesley.
- Fisher, A., Baumann, A., Hunsberger, M., Blythe, J., & Fitzpatrick, L. (2007). A collaborative evaluation of college and hospital critical care nursing programs in ontario. Retrieved from http://nhsru.com/publications/a-collaborative-evaluation-of college-and-hospital-critical-care-nursing-programs-in-ontario/
- Fitzpatrick, J., Campo, T., & Gacki-Smith, J. (2014). Emergency care nurses: Certification, empowerment, and work-related variables. *Journal of Emergency Nursing*, 40(2). 37-43. doi: 10.1016/j.jen.2013.01.021.
- Fitzpatrick, J., Campo, T., Graham, G., & Lavandero, R. (2010). Certification, empowerment, and intent to leave current position and the profession among ICU nursesl. *American Journal of Critical Care*, *19*(3). 218-229. doi: 10.4037/ajcc2010442.
- French, S., Lenton, R., Walters, V., & Eyles, J. (2000). An empirical evaluation of an expanded nursing stress scale. *Journal of Nursing Measurement*, 8(2). 161-178.
- Galletta, M., Portoghese, I., Coppola, R., Finco, G., & Campagna, M. (2014). Nurses well being in intensive care units: study of factors promoting team commitment. *British Association of ICU nursesl.* 1-11. doi: 10.1111/nicc.12083.

Ganz, F., Raanan, O., Khalaila, R., Bennaroch, K., Scherman, S., Bruttin, M., Sastiel, Z., Fink, N., & Benbenishty, J. (2012). Moral distress and structural empowerment among a national sample of Israeli intensive care nurses. *Journal of Advanced Nursing*, 69(2). Doi: 10.1111/j.1365-2648.2012.06020.x

- Ganz, F., & Toren, O. (2014). Israeli nurse practice environment characteristics, retention, and job satisfaction. *Israel Journal of Health Policy Research*, *3*(7). 1-8. doi: 10.1186/2045 4015-3-7
- Garland, G. (1996). Self report of competence. A tool for the staff development specialist. *Journal of Nursing Staff Development*, 12(4). 191-197.
- Gerber, R. (1990). Control over nursing practice scale. Paper presented at the National Conference on Instrumentation in Nursing, University of Arizona, Tuscon, AZ.
- Geurts, S. (2000). *SWING: Survey work-home interaction-nijmegan* (International research report). Nijmegen, The Netherlands: University of Nijmegan.
- Gingery, T. (2011). Advantages and disadvantages of online surveys. Retrieved from http://survey.cvent.com/blog/market-research-design-tips-2/advantages-and disadvantages-of-online-surveys
- Gittell, J., Fairfield, K., & Bierbaum, B. (2000). Impact of relational coordination on quality of care, postoperative pain and functioning, and length of stay: a nine-hospital study of surgical patients. *Medical Care*, 38. 807-819.

Gormanns, N., Lasota, M., McCracken, M., & Zitikyte, D. (2011). Quick facts: Absenteeism and overtime. Adapted from: Trends in own illness or disability-related absenteeism and overtime among publicly-employed registered nurses-Summary of key findings. Report prepared by Informetrica Limited for Canadian Federation of Nurses Unions: Ottawa.

- Gray-Toft, P., & Anderson, J. (1981). The nursing stress scale: development of an instrument.

 *Journal of Behavioural Assessment, 3. 11-13.
- Hackman, J., & Oldham, G. (1975). Motivation through the design of work: testing of a theory.

 Organizational Behavioural Human Performance, 11. 250-279.
- Han, K., Trinkoff, A., & Gurses, A. (2015). Work-related factors, job satisfaction and intent to leave the current job among United States nurses. *Journal of Clinical Nursing*, 24. 3224 3432. doi: 10. 1111/jocn.12987.
- Hauck, A., Griffin, M., & Fitzpatrick, J. (2011). Structural empowerment and anticipated turnover among ICU nursesl. *Journal of Nursing Management*, 19. 269-276. doi: 10.1111/j.1365-2834.2011.01205.
- Haut, E., Sicoutris, C., Meredith, D., Sonnad, S., Reilly, P., Schwab, W., Hanson, W., & Gracias,
 V. (2006). Improved nurse job satisfaction and job retention with the transition from a
 "mandatory consultation" model to a "semi closed" surgical intensive care unit: A 1 year
 prospective evaluation. *Critical Care Medicine*, 34(2). 387-395.
- Hayes, B., Bonner, A., & Pryor, J. (2010). Factors contributing to nurse job satisfaction in the acute hospital setting: a review of recent literature. *Journal of Nursing Management*, 18(7). 804-814. doi: 10.1111/j.1365-2834.2010.01131.

Hewitt Associates. (2008). The Hewitt engagement model. Retrieved February 27th from http://www.actuary.gr/en/services/toc/engagement.htm

- Hinshaw, A. & Atwood, J. (1984). Nursing staff turnover, stress, and satisfaction: Models, measures, and management, vol 1. New York, NY: Springer.
- Hinshaw, A., Atwood, J., Gerber, R., & Erickson, J. (1985). Testing a theoretical model for job satisfaction and anticipated turnover of nursing staff (Abstract). *Nursing Research*, 34(6). 384.
- Hungelmann, J., Kenkel-Rossi, E., Klassen, L., & Stollenwerk, K. (1996). Focus on spiritual well-being, harmonious interconnectedness of mind-body spirit-use of the JAREL spiritual well-being scale. *Geriatric Nurses*, 17(2). 262-266.
- Irvine, D., Leatt, P., Evans, G., & Baker, R. (1999). Measurement of staff empowerment within health service organizations. *Journal of Nursing Measurement*, 7, 79-96.
- Jie, Y. (1998). Simplified coping style questionnaire: reliability and validity assessment. *Chinese Journal of Clinical Psychology*, 2. 53-54.
- Judge, T., Erez, A., Bono, J., & Thoresen, C. (2003). The core self-evaluations scale: Development of a measure. *Person Psychology*, *56*(2). 303-331.
- Kalisch, P., & Kalisch, B. (1978). The advance of American nursing. Boston, MA: Little Brown.
- Kanter, R. (1977). Men and women of the corporation. New York, NY: Basic Books.
- Kanter, R. (1993). Men and women of the corporation. (2nd ed.). New York, NY: Basic Books.

Karasek, R. (1985). *Job content instrument: Questionnaire and users guide.* (Revision 1.1). University of Southern California, Los Angeles.

- Kramer, M., & Schmalenberg, C. (2008). Confirmation of a healthy work environment. *Critical Care Nurse*, 28(2). 56-64.
- Kristensen, T., Borritz, M., Villadsen, E., & Christensen, K. (2005). The Copenhagen burnout inventory: a new tool for the assessment of burnout. *Work Stress*, *19*(3). 192-207.
- Lai, H., Lin, Y., Chang, H., Wang, S., Liu, Y., Lee, H., Peng, T., & Chang, F. (2008). Intensive care unit staff nurses: predicting factors for career decisions. *Journal of Clinical Nursing*, 17(14). 1886-1896.
- Lake, E. (2002). Development of the practice environment scale of the nursing work index.

 Research Nursing Health, 25.176-188.
- Larrabee, J., Tanney, M., Ostrow, C., Withrow, M., Hobbs, G., & Burant, C. (2003). Predicting registered nurse job satisfaction and intent to leave. *Journal of Nursing Administration*, 33(5). 271-283.
- Laschinger, H. (2008). Effect of empowerment on professional practice environments, work satisfaction, and patient care quality: Further testing the nursing worklife model. *Journal of Nursing Care Quality*, 23(4). 322-330. doi: 10.1097/01.NCQ.0000318028.67910.6b.
- Laschinger, H., Almost, J., & Tuer-Hodes, D. (2003). Workplace empowerment and magnet hospital characteristics. *Journal of Nursing Administration*, *33*(7/8). 410-422.

Laschinger, H., Finegan, J., Shamian, J., & Wilk, P. (2001). Impact of structural and psychological empowerment of job strain in nursing work settings. *Journal of Nursing Administration* 31(5). 260-272.

- Laschinger, H., & Finegan, J. (2005). Using empowerment to build trust and respect in the workplace: A strategy for addressing the nursing shortage. *Nursing Economics*, 23(1). 6 13.
- Laschinger, H., Finegan, J., & Wilk, P. (2009). The impact of unit leadership and empowerment on nurses' organizational commitment. *The Journal of Nursing Administration*, *39*(5). 228-235. doi: 10.1097/NNA.0b013e3181a23d2b.
- Laschinger, H., & Havens, D. (1996). Staff nurse work empowerment and perceived control over nursing practice: conditions for work effectiveness. *Journal of Nursing Administration*, 26(9). 27-35.
- Laschinger, H., Nosko, A, Wilk, P., & Finegan, J. (2014). Effects of unit empowerment and perceived support for professional nursing practice on unit effectiveness and individual nurse well-being: A time-lagged study. *International Journal of Nursing Studies, article in press*. doi: 10.1016/j.ijnurstu.2014.04.010.
- Latham, G., & Budworth, M. (2007). The study of work motivation in the 20th century. In L. L. Koppes (Ed.) *Historical perspectives in industrial and organizational psychology*.

 Mahwah, NJ: Lawrence Erlbaum.
- Leininger, M. (1980). *Caring: A central focus of nursing and health care services*. Wesport, Conn: Technomic.

Li, J., & Lambert, V. (2008a). Job satisfaction among intensive care nurses from the people's republic of China. *International Nursing Review*, *55*. 34-39. doi: 10.1111/j.1466 7657.2007.00573.

- Li, J., & Lambert, V. (2008b). Workplace stressors, coping, demographics and job satisfaction in Chinese intensive care nurses. *Nursing in Critical Care*, *13*(1). 12-24. doi: 10.1111/j.1478-5153.2007.00252.
- Liden, R., & Maslyn, J. Multidimensionality of leader-member exchange: an empirical assessment through scale development. *Journal of Management*, 24(1). 43-72.
- Liu, Y., While, A., Li, S., & Ye, W. (2013). Job satisfaction and work related variables in Chinese cardiac critical care nurse. *Journal of Nursing Management*, 23. 487-497. doi: 10.1111/jonm.12161.
- Mahon, P. (2014). A critical ethnographic look at paediatric intensive care nurses and the determinants of nurses' job satisfaction. *Intensive and Critical Care Nursing*, *30*(1). 45 53. doi: 10.1016/j.iccn.2013.08.002.
- Malin, N., & Teasdale, K. (1990). Caring versus empowerment: Considerations for nursing practice. *Journal of Advanced Nursing*, 16(6). 657-662.
- Mark, B. & Hagenmueller, A. (1994). Technological and environmental charecteristics of intensive care units: implications for job re-design. *Journal of Nursing Administration*, 24(4S). 65-71.

Martin, R. & Hine, D. (2005). Development and validation of uncivil workplace behavior questionnaire. *Journal of Occupational Health Psychology*, 10(4). 477-490. Doi: 10.1037/1076-8998.10.4.4.477

- Maslach, C., & Jackson, S. (1981). The measurement of experienced burnout. *Journal of Occupational Behaviour*, 2. 99-113. doi: 10.1002/job.4030020205.
- Maslach, C., & Jackson, S. (1986). *Maslach burnout inventory manual: manual.* (2nd ed.).

 Consulting Psychalogists Press, Palo Alto: CA.
- Maslach, C., Schaufeli, W., Leiter, M. (2001). Job Burnout. *Annual Review of Psychology*, 52. 397-422.
- Mattson, J., Forsner, M., Castren, M., & Arman, M. (2013). Caring for children in pediatric intensive care units: An observation study focusing on nurses' concerns. *Nursing Ethics*, 20(5). 528-538. doi: 10.1177/0969733012466000
- McCarthy, G. (2002). *Turn over final report*. University College Cork Department of Nursing Studies, Cork, Ireland.
- McKillup, S. (2012). Statistics explained. Cambridge: Cambridge University Press.
- Meyer, A., Wheeler, S., Weinberger, M., Chen, R., & Carpenter, W. (2014). An overview of methods for comparative effectiveness research. *Seminars in Radiation Oncology*, 24(1).
 5-13. doi:10.1016/j.semradonc.2013.09.002.
- Minick, P. & Harvey, S. (2003). The early recognition of patient problems among medical surgical nurses. *Medsurg Nursing*, 12. 291-297.

Mishra, A. (1996). Organizational responses to crisis: The centrality of trust. In R.M. Kramer & T.R. Tyler [Eds.], *Trust in organizations: Frontiers of theory and research* [pp. 261-287]. Thousand Oaks, CA: Sage.

- Mueller, C., & McCloskey, J. (1990). Nurses' job satisfaction: A proposed measure. *Nursing Research*, *39*(2). 113-117.
- Munro, B.H. (2001). Statistical methods for health care research. Philadelphia: Lippincott.
- Myrhen, H., Ekeberg, O., & Stokland, O. (2013). Job satisfaction and burnout among intensive care unit nurses and physicians. *Critical Care Research and Practice*. 1-6. doi: 10.1155/2013/786176.
- Nagy, M. (2002). Using a single-item approach to measure facet job satisfaction. *Journal of Occupational and Organizational Psychology*, 75. 77-86. doi: 10.1348/096317902167658.
- Nowrouzi, B., Rukholm, E., Lariviere, M., Carter, L., Koren, I., Mian, O., & Giddens, E. (2016).

 An examination of retention factors among registered nurses in Northeastern Ontario,

 Canada: Nurses intent to stay in their current positions. *Work*, *54*. 51-58.

 doi:10.3233/wor-162267.
- O'Brien-Pallas, L., Tombin Murphy, G., Shamian, J., Li, X., & Hayes, L. (2010). Impact and determinants of nurse turnover: a pan-Canadian study. *Journal of Nursing Management*, 18. 1073-1086. doi: 10.1111/j.1365-2834.2010.01167.x.

Official Languages Community Development Bureau. (2009). Overview of the cost of training health professionals. Retrieved from <a href="http://publications.gc.ca/collections/collections/collections/collections/collections/collections/collections/collections/collections/collections/collections/collections/collections/collections/collections/collections/collections/collections/collections/collections/collections/collections/collections/collections/collections/collections/collections/collections/collections/collections/collections/collections/collections/collections/collections/collections/collections/collections/collections/collections/collections/collections/collections/collections/collections/collections/collections/collections/collections/collections/collections/collections/collections/collections/collections/collections/collections/collections/collections/collections/collections/collections/collections/collections/collections/collections/collections/collections/collections/collections/collections/collections/collections/collections/collections/collections/collections/collections/collections/collections/collections/collections/collections/collections/collections/collections/collections/collections/collections/collections/collections/collections/collections/collections/collections/collections/collections/collections/collections/collections/collections/collections/collections/collections/collections/collections/collections/collections/collections/collections/collections/collections/collections/collections/collections/collections/collections/collections/collections/collections/collections/collections/collections/collections/collections/collections/collections/collections/collections/collections/collections/collections/collections/collections/collections/collections/collections/collections/collections/collections/collections/collections/collections/collections/collections/collections/collections/collections/collections/collections/collections/collections/collections/collections/collections/collections/collections/

- Olausson, S., Ekebergh, M., & Osterberg, S. (2014). Nurses' lived experiences of intensive care unit bed spaces as a place of care: a phenomenological study. *British Association of ICU nursesl*, 19(3). 126-134. doi: 10.1111/nicc.12082.
- Orem, D. (1991). Nursing: Concepts of Practice. (4th ed.). St. Louis, MO: Mosby Year Book.
- Oyeleye, O., Hanson, P., O'Connor, N., & Dunn, D. (2013). Relationship of workplace incivility, stress, and burnout on nurses' turnover intentions and psychological empowerment.

 **Journal of Nursing Administration, 43(10). 536-542. doi: 10.1097/NNA.0b013e3182a3e8c9.
- Penz, K., Stewart, N., D'Arcy, C., & Morgan, D. (2008). Predictors of job satisfaction for rural acute care nurses in Canada. *Western Journal of Nursing Research*, *30*(7). 785-800. doi: 10.1177/0193945908319248
- Porter, B. (2012). Tips and tricks to improve survey response rates. Retrieved from https://www.surveymonkey.com/blog/2012/03/28/improve-survey-response-rate
- Price, A. (2013). Caring and technology in an intensive care unit: an ethnographic study. *Nursing Critical Care*, *18*(6). 278-288. doi: 10.1111/nicc.12032
- Price, J., & Mueller, C. (1981). A casual model of turnover for nurses. *Academy of Management Journal*, 24(3). 543-565.

Quinn, R., & Shepard, L. (1974). *The 1972-1973 quality of employment survey*. Ann Arbor, MI: Institute for Social Research.

- Rambur, B., Palumbo, M., McIntosh, B., & Mongeon, J. (2003). A statewide analysis of RNs' intention to leave their position. *Nursing Outlook*, *51*. 182-188.
- Rogers, M. (1970). An introduction to the theoretical basis of nursing. Philadelphia, PA: F.E. Davis.
- Roulin, N., Mayor, E., & Bangerter, A. (2014). How to satisfy and retain personnel despite job market shortage.: Multilevel predictors of nurses' job satisfaction and intent to leave.

 Swiss Journal of Psychology, 73(1). 13-24. doi.org/10.1024/1421-0185/a000123
- Sawatzky, J., & Enns, C. (2012). Exploring the key predictors of retention in emergency nurses. *Journal of Nursing Management*, 20. 696-707. doi: 10.1111/j.1365-2834.2012.01355.
- Sawatzky, J., Enns, C., & Legare, C. (2015). Identifying the key predictors for retention in ICU nursesl. *Journal of Advanced Nursing*, 71(10). 2315-2325. doi: 10.1111/jan.12701.
- Shortell, S., Rousseau, D., Gillies, R., Devers, K., & Simons, T. (1991). Organizational assessment in intensive care units: construct development, reliability, and validity of the ICU nurse-physician questionnaire. *Medical Care*, 29(8). 709-726.
- Siffleet, J., Williams, A., Rapley, P. & Slatyer, S. (2015). Delivering best care and maintaining emotional wellbeing in the intensive care unit: the perspective of experienced nurses.

 Applied Nursing Research, 28.305-310. Doi: 10.1016/j.apnr.2015.02.008.

Sorra, J., & Nieva, V. (2004a). Hospital survey on patient safety culture. (Prepared by Westat, under Contract No. 290-96-0004). AHRQ Publication No. 04-0041. Rockvills (MD):

Agency for Healthcare Research and Quality. September 2004. Retrieved from http://www.premierinc.com/safety/topics/culture/downloads/3_hospcult.pdf

- Spector, P. (1997). *Job satisfaction: Application, assessment, causes, and consequences.*Thousand Oaks, CA: Sage.
- Spreitzer, G. (1995). Psychological empowerment in the workplace: dimensions, measurement, and validation. *Academy of Management Journal*, *38*(5). 1442-1465. doi.org/10.2307/256865.
- Stamm, B. (2005). The professional quality of life scale. Retrieved from http://www.isu.edu/~bhstamm
- Stamps, P. (1997). *Nurses and work satisfaction: An index for measurement* (2nd ed.). Chicago, IL: Health Administration.
- Stewart, N., D'Arcy, C., Kosteniuk, J., Andrews, M., Morgan, D., Forbes, D., MacLeod, M., Kulig, J., & Pitblado, J. (2011). Moving on? Predictors of intent to leave among rural and remote RNs in Canada. *The Journal of Rural Health*, 27(1). 103-113. doi: 10.1111/j.1748-0361.2010.00308.
- Stone, P., Larson, E., Mooney-Kane, C., Smolowitz, J., Lin, S., & Dick, A. (2009).

 Organizational climate and intensive care unit intention to leave. *Journal of Nursing Administration*, 39(7/8). 537-542.

Stone, P., Mooney-Kane, C., Larson, E., Pastor, D., Zwanziger, J., & Dick, A. (2006). Nurse working conditions, organizational climate, and intent to leave in ICUs: An instrumental variable approach. *Health Services Research*, 42(3). 1085-1104.

- Suominen, T., Leino-Kilpi, H., Merja, M., Doran D., & Puuka, P. (2001). Staff empowerment in Finnish intensive care units. *Intensive and Critical Care Nursing*, *17*(6). 341-347.
- Sutherland, V., & Cooper, C. (1992). Job stress, satisfaction, and mental health among general practitioners before and after introduction of new contract. *British Medical Journal*, 304(6841). 1545-1548.
- Tao, H., Ellenbecker, C., Wang, Y. & Li, Y. (2015). Examining percepting of job satisfaction and intention to leave among ICU nurses in China. *International Journal of Nursing Sciences*. 140-148. Doi: 10.1016/j.ijnss.2015.04.007.
- Teasdale, K. (1989). The concept of reassurance in nursing. *Journal of Advanced Nursing*, 14. 444-450.
- The National Union of Taiwan Nurses Association. (2006). Survey of nursing turnover rate.

 Retrieved from http://forum.news.yam.com/trackback.php/200609158891.
- Thomas, E., Sexton, J., & Helmreich, R. (2003). Discrepant attitudes about teamwork among critical care nurses and physicians. *Critical Care Medicine*, *31*(3). 956-959.
- Thomas, K., & Velthouse, B. (1990). Cognitive elements of empowerment. *Academy of Management Review*, 15(4). 666-681. doi: 10.5465/AMR.1990.4310926.

Trinkoff, A., Lipscomb, J., Geiger-Brown, J., Storr, C., & Brady, B. (2003). Perceived physical demands and reported musculoskeletal problems in registered nurses. *American Journal of Preventative Medicine*, 24. 270-275.

- Tsui, A. & O'Reilly, C. (1989). Beyond simple demographic effects: the importance of relational demography in superior-subordinate dyads. *Academy Management Journal*, *32*. 402-423.
- Tzeng, H. (2002). The influences of nurses' working motivation and job satisfaction on intention to quit: an empirical investigation in Taiwain. *International Journal of Nursing Studies*, 39(8). 867-878.
- U.S. Department of Health and Human Services & U.S. Department of Labor. (2005). Measuring long term care work: a guide to selected instruments to examine direct care worker experiences and outcomes. Retrieved from http://aspe.hhs.gov/daltep6/reports/dewguide.pdf.
- VanDam, K. (2008). Time frames for leaving: an explorative study of employees' intention to leave the organization in the future. *Career Development International*, 13. 1362-1436.
- VanDam, K., Meewis, M., & Van Der Heijden, B. (2012). Securing intensive care: towards a better understanding of intensive care nurses' perceived work pressure and turnover intention. *Journal of Advanced Nursing*, 69(1). 31-40. doi: 10.1111/j.1365 2648.2012.05981.
- Wageman, R., Hackman, J. & Lehman, E. (2005). Team diagnostic survey: Development of an instrument. *The Journal of Applied Behavioural Science*, 41. 373-398. Doi: 10.1177/0021886305281984.

Wahlin, I., Ek, A., & Idvall, E. (2010). Staff empowerment in intensive care: Nurses' and physicians' lived experiences. *Intensive and Critical Care Nursing*, 26(5). 262-269. doi:

- Warr, P., Cook, J., & Wall, T. (1979). Scales for the measurement of some work attitudes and aspects of psychological well-being. *Journal of Occupational Psychology*, *52*. 129-148. 10.1016/j.iccn.2010.06.005.
- Watson, J. (1988). *Nursing: Human science and human care*. New York, NY: National League for Nursing.
- Watson, J. (2005). Caring science as sacred science. Philadelphia, PA: F.A. Davis Company.
- Wilkin, K., & Slevin, E. (2004). The meaning of caring to nurses: an investigation into the nature of caring work in an intensive care unit. *Journal of Clinical Nursing*, *13*(1). 50-59.
- Wong, C., & Laschinger, H. (2012). Authentic leadership, performance, and job satisfaction: the mediating role of empowerment. *Journal of Advanced Nursing* 69(4). 1-13. doi: 10.1111/j.1365-2648.2012.06089.
- Wu, T., Oliffe, J., Bungay, V., & Johnson, J. (2014). Male ICU nurses' experiences of taking care of dying patients and their families: A gender analysis. *American Journal of Men's Health, ahead of print*.
- Xiao, S. (1994). Social support rating scale: theory and implication. *Journal of Clinical Psychiatry*, 4. 98-100.
- Zohar, D. (1980). Safety climate in industrial organizations: theoretical and applied implications. *Journal of Applied Psychology*, 65. 96-102.

Zurmehly, J., Martin, P., & Fitzpatrick, J. (2009). Registered nurse empowerment and intent to leave current position and/or profession. *Journal of Nursing Management*, 17(3). 383 391. doi: 10.1111/j.1365-2834.2008.00940.

Appendix A



Human Ethics 208-194 Dafoe Road Winnipeg, MB Canada R3T 2N2 Phone +204-474-7122 Fax +204-269-7173

Research Ethics and Compliance Office of the Vice-President (Research and International)

APPROVAL CERTIFICATE

September 30, 2015

TO:

Amanda Jacoby

Principal Investigator

(Advisor L. Guse)

FROM:

Thomas Falkenberg, Chair

Education/Nursing Research Ethics Board (ENKEB)

Protocol #E2015:078

"ICU Nurses' Perceived Empowerment, Caring, Job Satisfaction, and Intent to Leave within Central Canadian Hospitals"

Please be advised that your above-referenced protocol has received human ethics approval by the Education/Nursing Research Ethics Board, which is organized and operates according to the Tri-Council Policy Statement (2). This approval is valid for one year only.

Any significant changes of the protocol and/or informed consent form should be reported to the Human Ethics Secretariat in advance of implementation of such changes.

- If you have funds pending human ethics approval, please mail/e-mail/fax (261-0325) a copy of this Approval (identifying the related UM Project Number) to the Research Grants Officer in ORS in order to initiate fund setup. (How to find your UM Project Number) http://www.ichb.co/pengers/project for htmlfart) Project Number: http://umanitoba.ca/research/ors/mrt-fag.html#pr0)
- if you have received multi-year funding for this research, responsibility lies with you to apply for and obtain Renewal Approval at the expiry of the initial one-year approval; otherwise the account will be locked.

The Research Quality Management Office may request to review research documentation from this project to demonstrate compliance with this approved protocol and the University of Manitoba Ethics of Research Involving Humans.

The Research Ethics Board requests a final report for your study (available at: http://umanitoba.ca/research/orec/ethics/human_ethics_REB_forms_guidelines.html) in order to be in compliance with Tri-Council Guidelines.

umanitoba.ca/research

Appendix B

Caring Efficacy Scale

	Strongly Disagree	Moderately Disagree	Slightly Disagree	Slightly Agree	Moderately Agree	Strongly Agree
I do not feel confident in my ability to express a sense of caring to my clients/ patients.	41(56.2%)	20(27.4%)	5(6.8%)	0(0%)	2(2.7%)	4(5.5%)
N=72						
If I am not relating well to a client / patient, I try to analyze what I can do to reach him/ her.	5(6.8%)	5(6.8%)	6(8.2%)	13(17.8%)	22(30.1%)	21(28.8%)
N=72						
I feel comfortable in touching my clients / patients in the course of care giving.	2(2.7%)	3(4.1%)	4(5.5%)	4(5.5%)	24(32.9%)	36(49.3%)
N=73						
I convey a sense of personal strength to my clients / patients.	1(1.4%)	2(2.7%)	5(6.8%)	12(16.4%)	30(41.1%)	23(31.5%)
N=73						
Clients / patients can tell me most anything and I won't be shocked.	1(1.4%)	1(1.4%)	8(11.0%)	5(6.8%)	23(31.5%)	35(47.9%)
N=73						
I have an ability to introduce a sense of normalcy in stressful conditions.	1(1.4%)	4(5.5%)	3(4.1%)	12(16.4%)	25(34.2%)	28(38.4%)
N=73						

	Strongly Disagree	Moderately Disagree	Slightly Disagree	Slightly Agree	Moderately Agree	Strongly Agree
It is easy for me to consider the multifacets of a clients' patient's care, at the same time as I am listening to them N=73	1(1.4%)	2(2.7%)	5(6.8%)	15(20.5%)	26(35.6%)	24(32.9%)
I have difficulty in suspending my personal beliefs and biases in order to hear and accept a client / patients as a person.	32(43.8%)	20(27.4%)	9(12.3%)	6(8.2%)	3(4.1%)	3(4.1%)
N=73						
I can walk into a room with a presence of serenity and energy that makes clients / patients feel better.	1(1.4%)	4(5.5%)	6(8.2%)	13(17.8%)	27(37.0%)	22(30.1%)
N=73						
I am able to tune into a particular client / patient and forget my personal concerns.	1(1.4%)	2(2.7%)	8(11.0%)	9(12.3%)	31(42.5%)	22(30.1%)
N=73						
I can usually create some way to relate to most any client / patient.	1(1.4%)	2(2.7%)	4(5.5%)	13(17.8%)	28(38.4%)	25(34.2%)
N=73						
I lack confidence in my ability to talk to clients / patients from backgrounds different from my own.	44(60.3%)	18(24.7%)	4(5.5%)	2(2.7%)	2(2.7%)	3(4.1%)
N=73						
I feel if I talk to clients / patients on an individual, personal bias, things might get out of control.	37(50.7%)	20(27.4%)	6(8.2%)	6(8.2%)	2(2.7%)	1(1.4%)
N=72						

	Strongly Disagree	Moderately Disagree	Slightly Disagree	Slightly Agree	Moderately Agree	Strongly Agree
I use what I learn in conversations with clients / patients to provide more individualized care.	2(2.7%)	4(5.5%)	2(2.7%)	8(11.0%)	30(41.1%)	27(37.0%)
N=73						
I don't feel strong enough to listen to the fears and concerns of my clients / patients.	45(61.6%)	21(28.8%)	4(5.5%)	0(0%)	3(4.1%)	0(0%)
N=73						
Even when I'm feeling self-confident about most things, I still seem to be unable to relate to clients / patients.	40(54.8%)	20(27.4%)	6(8.2%)	2(2.7%)	3(4.1%)	1(2.7%)
N=73						
I seem to have trouble relating to clients / patients.	47(64.4%)	20(27.4%)	4(5.5%)	1(1.4%)	0(0%)	0(0%)
N=72						
I can usually establish a close relationship with my clients / patients.	1(1.4%)	8(11%)	4(5.5%)	16(21.9%)	30(41.1%)	14(19.2%)
N=73						
I can usually get patients / clients to like me.	0(0%)	7(9.6%)	5(6.8%)	9(12.3%)	35(47.9%)	17(23.3%)
N=73						
I often find it hard to get my point of view across to patients / clients when I need to.	26(35.6%)	33(45.2%)	9(12.3%)	1(1.4%)	3(4.1%)	1(1.4%)
N=73						
When trying to resolve a conflict with a client / patients, I usually make it worse.	39(53.4%)	26(35.6%)	7(9.6%)	0(0%)	1(1.4%)	0(0%)
N=73						

	Strongly Disagree	Moderately Disagree	Slightly Disagree	Slightly Agree	Moderately Agree	Strongly Agree
If I think a client / patient is uneasy or may need help, I approach that person.	1(1.4%)	3(4.1%)	7(9.6%)	10(13.7%)	26(35.6%)	22(30.1%)
N=69						
If I find it hard to relate to a client / patient, I'll stop trying to work with that person.	31(42.5%)	27(37.0%)	10(13.7%)	4(5.5%)	1(1.4%)	0(0%)
N=73						
I often find it hard to relate to clients / patients from a different culture than mine.	43(58.9%)	20(27.4%)	5(6.8%)	2(2.7%)	2(2.7%)	1(1.4%)
N=73						
I have helped many clients / patients through my ability to develop close, meaningful relationships.	4(5.5%)	6(8.2%)	7(9.6%)	21(28.8%)	21(28.8%)	14(19.2%)
N=73						
I often find it difficult to express empathy with clients / patients.	45(61.6%)	13(17.8%)	8(11.0%)	3(4.1%)	1(1.4%)	3(4.1%)
N=73						
I often become overwhelmed by the nature of the problems clients / patients are experiencing.	30(41.1%)	29(39.7%)	7(9.6%)	6(8.2%)	0(0.0%)	1(1.4%)
N=73						
When a client / patient is having difficulty communicating with me, I am able to adjust to his / her level.	0(0.0%)	3(4.1%)	4(5.5%)	14(19.2%)	33(45.2%)	18(24.7%)
N=72						
	Strongly	<u>Moderately</u>	Slightly	Slightly	Moderately	Strongly

	<u>Disagree</u>	<u>Disagree</u>	<u>Disagree</u>	<u>Agree</u>	<u>Agree</u>	<u>Agree</u>
Even when I really try, I can't get through to difficult clients / patients.	20(27.4%)	34(46.6%)	12(16.4%)	4(5.5%)	1(1.4%)	2(2.7%)
N=73						
I don't use creative or unusual ways to express caring to my clients / patients.	22(30.1%)	23(31.5%)	16(21.9%)	2(2.7%)	6(8.2%)	3(4.1%)

N=72