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Relationship among Motivation, Emotion Regulation, and Psychological Well-being of Sophomore and Senior Level Nursing Students

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Abstract

Nursing education and professional work involve stressful circumstances that may lead to attrition, which can further contribute to the projected nursing shortage. This study examines the relationships between motivation, emotional regulation, psychological well-being and academic performance in baccalaureate sophomore and senior level nursing students at a Midwest urban university in the United States. The non-experimental, correlational study is guided by Deci and Ryan's self-determination theory and uses an online survey data collection and convenience sampling. Measures include: motivation, emotional regulation, psychological well-being (burnout; inauthenticity), and academic performance (GPA), and will be measured using Deci and Ryan's scale, the Emotion Regulation Questionnaire, and the Burnout and Inauthenticity in the Student Role scale. Pearson correlation analysis will be used to determine relationships between types of motivation, emotional regulation, psychological well-being, and academic performance.

Relationship among Motivation, Emotional Regulation, and Psychological Well-being of Sophomore and Senior Level Nursing Students

It is well established in the literature that nursing is a stressful and emotionally challenging profession because of high demands, rapidly changing circumstances, and dealing with dying patients (Watson, Deary. Thompson, & Li, 2008). While these challenges are typically attributed to the interaction with clients, they may also stem from the work itself, contributing to the epidemic of burnout among nurses (van der Walt, 2014). This burnout among nurses can be related to the individual's work overload, conflict among employees, and lack of job resources (van der Walt, 2014). This burnout can lead to psychological and physical effects for the person, but also can affect their work quality and have an impact on the company (van der Walt, 2014). As a result, burnout may lead to low productivity, absenteeism, and many leaving their jobs (van der Walt, 2014). According to Buerhaus, Auerbach and Staiger (2009), the United States nursing shortage is projected to reach 260,000 registered nurses by the year 2025. Factors associated with the increasing demands for nurses and the subsequent shortages include: retirement of the baby boomers, stress level of nurses drives them to leave the profession, and a lack of nursing school faculty restricts enrollments (AACN, 2014). The looming issue of insufficient primary healthcare providers can be traced to similar issues of attrition rates within nursing training programs.

With 169,125 nursing students enrolled in entry-level baccalaureate nursing programs in the United States, nursing faculty are also becoming concerned with burnout as university nursing programs report an average attrition rate of approximately 67% (AACN, 2012). In academia, nursing is a highly competitive and rigorous area of study that presents students with a significant number of demands, including high academic standards and long clinical practices. Such high stakes may be overwhelming for many of the prospective healthcare professionals, resulting in more negative psychological outcomes beyond that of burnout (Watson, Deary, Thompson, & Li, 2008). When combined with poor emotion regulation skills, individuals can start to feel emotionally exhausted and

may show physical signs (van der Walt, 2014). When a person is stressed, the fight-or-flight response is activated with high levels of cortisol being excreted (van der Walt, 2014). The negative effects of long term cortisol release include: an increased risk of cardiovascular disease, sleep disturbances, fatigue, and immune compromise (van der Walt, 2014). This accumulated level of stress can lead individuals to drop out of the program (Watson, Dreary, Thompson, & Li, 2008). Unless the antecedent issue of nursing student attrition is addressed, then the subsequent shortage of experienced and capable nurses is likely to grow. Furthermore, if students are not excelling during their training, this may be indicative of later inadequacies in nurses' ability to provide quality health care (Watson, Dreary, Thompson, & Li, 2008). Failure to intervene may put both students and patients at risk.

Because psychological well-being and academic performance are necessary for a future with qualified health care providers, we examined two large bodies of literature that have been linked to these outcomes among nurses: work-related motivation and emotional regulation. Understanding student motivation for enrolling in the nursing program may offer substantive insight into student experiences during the program, as well as the subsequent emotional regulation necessary to be successful. This study aims to reveal the relationships between motivation, emotional regulation, psychological well-being, and academic performance in baccalaureate sophomore and senior level nursing students. Hypotheses are advanced in the Theoretical Framework section of this document and tested during analysis.

Review of Literature

Stress in nursing students is related to burnout and attrition (Tourangeau, Cummings, Cranley, Ferron, & Harvey, 2009). In a Taiwanese meta-analysis, Yin and Yang (2002) found that high workload and stress was the second most frequent reason why nurses leave their jobs. Perceived burnout is due to several factors including individual personality traits and coping strategies (Watson, Deary, Thompson, & Li, 2008). Within other professional contexts, perceived stress and burnout were found to be related to different types of motivation (Brummelhuis, Hoeven, Bakker, & Peper, 2011).

Motivation

According to Deci and Ryan's self-determination theory (SDT), motivation for completing tasks may range from intrinsic, extrinsic, and prosocial sources (Gagne & Deci, 2005). Intrinsically motivated behavior occurs because the individual enjoys the task itself. For example, a student reads an article because they find the subject matter interesting or exciting. Past research indicates that intrinsic motivation is linked to positive psychological adjustments and outcomes (Brummelhuis et al., 2011). Intrinsically motivated people are better equipped with coping strategies, meaning they will be able to handle stress in more effective ways (Brummelhuis et al., 2011).

Extrinsically motivated people, those who are motivated by external rewards such as money, deal with stress passively, leading to accumulative stressors becoming present (Brummelhuis et al., 2011). Pro-social individuals are those motivated by altruism and by a willingness to help others. Dill, Erickson, and Diefendorff (2014) studied hospital nurses and found that nurses who experience extrinsic or intrinsic motivation have better perceived health, lower burnout, and less chance to leave their job compared to those who are motivated pro-socially. Pro-social motivation is important to consider because this type of motivation is reported in nursing students as the reason they enter into nursing programs; however, it may also contribute to increased likelihood of burnout in nursing students (Newton, Kelly, Kremser, Jolly, & Billet, 2009). Nesje (2014) studied nurses and found that pro-social motivation is important in identifying with the nursing profession but does not necessarily reflect on their personal involvement with the job.

The type of motivation people experience is important to study because it may affect work outcomes in which intrinsically motivated persons may have higher job performance levels, compared with extrinsically motivated persons (Moran, Diefendorff, Kim, & Liu, 2012). The expectation that nurses must be altruistic and loving is all too common. Students begin learning their roles in this 'caring' profession as early as their first clinical experience (Bolton, 2000). However, offering extra emotion and more of themselves to patients and their families turns out to be very costly to the nurse

and nursing student. Most of the time, while nurses are expected to empathize with patients, they also have to maintain a professional face at the expense of being perceived as emotionally detached (Bolton, 2000). Because nurses work so hard to regulate their emotions, they are often subjected to an array of negative psychological outcomes (Bolton, 2000).

Emotion Regulation

Reappraisal and suppression are two different types of emotional regulation strategies.

Reappraisal is trying to change how you think about something before emotion occurs, and suppression is hiding the emotion. Both are thought to affect one's well-being (English & John, 2013). Although people try to regulate their emotions in order to facilitate social interactions on a regular basis, emotional regulation does not always bring a positive impact on the individual (English & John, 2013). The strategies are also frequently employed to complete academic endeavors (Gross & John, 2003). For example, students experiencing frustration worry, or other negative emotions, that are brought on by an assignment, must regulate emotions to concentrate on the work at hand (Gross & John, 2003). By taking on a more positive attitude, reappraisers tend to experience more positive emotions. On the other hand, suppressors take action in a later stage of the "emotion-generative process," and experience more negative emotions therefore, concealing their true feelings and finding themselves being inauthentic (Gross & John, 2003). For further information on the literature used see appendix A.

Theoretical Framework

Deci & Ryan's self-determination theory (see appendix B) is a mega-theory comprised of six mini-theories explaining motivationally-based phenomona (Gagne & Deci, 2005). In general, the mega-SDT describes people's inherent growth tendencies and innate psychological needs as they relate to the performance of work and other duties (Ryan & Deci, 2000). These tendencies and needs are seen as the basis for motivation and personality assimiliation (Ryan & Deci, 2000). For the purposes of this study three distinct types of motivation will be analyzed: intrinsic, extrinsic, and prosocial motivation. Intrinsic motivation is characterized by doing something out of genuine interest, and because one wants

to achieve a goal, while extrinsic motivation, is characterized by doing something to attain a reward such as good salaries and benefits (Moran, Diefendorff, Kim, & Liu, 2012). Prosocial motivation is based on performing an action with the intention to benefit others (Gagne & Deci, 2005).

The SDT explains that the type of motivation an individual experiences can affect the person behaviorally, congnitvely, and affectively (Ryan & Deci, 2000). In this study, we will study intrinsic, extrinsic, and prosocial motivation with outcomes of well-being (burnout; inauthenticity) and academic performance (GPA). The theory suggests that extrinsically motivated people will have a decreased performance when compared to intrinsically motivated individuals (Ryan & Deci, 2000). Based on this theory, we hypothesize that intrinsically motivated nursing students will have a better GPA and less burnout compared to extrinsically motivated nursing students.

The mini-theory of Basic Psychological Needs Theory (BPNT) forms the basis of the SDT (Gagne & Deci, 2005). BPNT describes basic pychological needs and their relationship to well-being. It explains that well-being is based on autonomy, competence, and relatedness (Gagne & Deci, 2005). Competence is defined as the need to be effective in dealing with the environment (Gagne & Deci, 2005). In this study, emotional regulation is one type of competence because persons use emotional regulation skills to effectively manage emotions and the environment. The theory suggests that the degree of competence affects the motivation, which in return, will have an impact on psycholoocal well-being and performance, represented in this study by burnout and grade point average (GPA) (Gagne & Deci, 2005). Therefore, we hypothesize that the more competence or emotionally regulated a person is, the less burnout they will experience and the better their GPA will be. By using the SDT, we expect positive correlations between emotional regulation (competence), motivation (extrinsic and intrinsic), and well-being and GPA (enhanced performance). In summary, the following hypotheses are advanced:

H1: Extrinsic motivation will be positively correlated with burnout.

H2: Extrinsic motivation will be positively correlated with inauthenticity.

- H3: Extrinsic motivation will be <u>negatively</u> correlated <u>with academic performance</u> (GPA).
- H4: Intrinsic motivation will be negatively correlated with burnout.
- H5: Intrinsic motivation will be negatively correlated with inauthenticity.
- H6: Intrinsic motivation will be positively correlated with academic performance.
- H7: Expressive suppression will be positively correlated with burnout.
- H8: Expressive suppression will be positively correlated with inauthenticity.
- H9: Expressive suppression will be negatively correlated with academic performance (GPA).
- H10: Cognitive reappraisal will be negatively correlated with burnout.
- H11: Cognitive reappraisal will be negatively correlated with inauthenticity.
- H12: Cognitive reappraisal will be positively correlated academic performance (GPA).

Methods

Design

The design is a non-experimental, correlational study. We will measure the sample only one time, making it a cross-sectional study, as well. The investigation will use online survey data collected from sophomore and senior level baccalaureate nursing students to examine relationships between self-motivation, emotion regulation, psychological well-being, and academic performance. Participants will not be compensated for their time. IRB approval will be attained in the fall of 2015, followed by online recruitment and data collection.

Setting and Sample

The setting is in a baccalaureate nursing program at a large urban public university in the Midwest of the United States. The total number of students at university for 2014 was 25,865. The number of students in school of nursing in 2013 was about 1,000 including undergraduate and graduate. There are about 400 graduate students in the nursing program; the types of nursing programs for graduate students are PhD, CRNA, and DNP programs. The undergraduate students make up about 600 students and the undergraduate programs include tradition baccalaureate (BSN) (468), RN to BSN,

accelerated, and LPN to BSN (The University of Akron, 2015)

The population to be sampled will be sophomore and senior level nursing students enrolled in a baccalaureate nursing program. All participants are required to be over the age of 18 years old and will indicate informed consent form prior to beginning the survey. The participants must be enrolled as undergraduates in a baccalaureate nursing program. This will include part-time and full-time students. The sample will not include graduate students. No participants will be excluded related to gender, ethnicity, or age, as long as they meet age inclusion criteria.

Sampling and Data Collection Procedures

In order to recruit participants and construct a convenience sample, a total of three emails will be sent to all sophomore and senior level baccalaureate students. These emails will inform the population about the project, what the study will measure, and how long the questionnaire should take to complete. They will be informed that participation is voluntary and their participation will remain anonymous. Their human subject rights will remain protected and if they feel uncomfortable at any point of taking the survey, they can stop taking it. An academic advisor will work with a college-level office of student success, which will initiate the distribution of recruitment emails because they have access to the emails of all nursing students. To enhance recruitment efforts and promote internal validity, three emails will be sent over a 15 day period. To support recruitment and promote protection of human subject rights, this time frame and online data collection aim to provide participants enough time to take the questionnaire, reminders to participate, and privacy during data collection. Participation is voluntary and this information will be disclosed with the informed consent form prior to each participant beginning the survey. Informed consent will be determined by having the participant read an electronic consent form before taking the questionnaire. If they agree to the terms they will continue with the questionnaire, with questionnaire submission indicating informed consent. An example of the consent form can be seen in appendix C.

The data for this investigation will be collected in the fall of 2015 using an online survey

service, such as Qualtrics or Survey Monkey. To promote interval validity and respect human subject rights, the questionnaire will remain short, and the consent form will inform the participants how long the survey will take, making it more likely for participants to complete the survey. The use of an online survey will allow individuals to answer honestly because they will not feel pressure from others. The participants will also be informed of the importance of this study, how it relates to them, and what the findings may indicate. Because the survey is online, anonymity is protected. Human rights will be protected by offering the participants the option to not respond to items, by offering the ability to process forward or backward in the survey, offering the ability to change an answer, and by offering the ability to choose to submit the survey once it is completed. Only the research advisor and co-investigators will have access to the data, which will be stored in password-protected computers. No identifying information will be collected and all findings will be reported in aggregate form. Data will be destroyed after 5 years to ensure the safety of the information obtained and in compliance with university institutional review board. An example of the questionnaire can be seen in appendix D.

Measures

Motivation. Motivation will be measured based on Deci and Ryan's (2008) work and a modified version of the scale in Moran, Diefendorff, Kim, and Liu's work (2012) (see Appendix D). Extrinsic motivation is motivation driven by external rewards such as salary, benefits, or other's expectations and will be measured on an ordinal level with 3 items adopted from Deci and Ryan's (2008) self-determination theory. Using a five-point Likert scale, participants will be asked to indicate to which degree they agree or disagree with statements, e.g., 1=Strongly Disagree; 2=Somewhat Disagree; 3=Neither Agree Nor Disagree; 4=Somewhat Agree; 5=Strongly Agree. Items are about motivation from rewards or fear of punishment; examples are: "I enrolled in the Nursing program because...as a Nurse, I will get paid well." Therefore, higher scores will equal higher extrinsic motivation. The scores will then be summed which will make extrinsic motivation be measured at the interval level. The scores will range from 3-15. Researchers have reported inter-item reliability

Cronbach alpha rating of .71, suggesting adequate tool reliability.

Similarly, intrinsic motivation will be measured on an ordinal level with 3 items on a five point likert scale based on Deci and Ryan's work (2008) (for more information see appendix D). The items are about motivation from interest or enjoyment of the work. For example, participants will be asked to what degree they agree or disagree with the following statement: "I enrolled in the Nursing program because... I find the work interesting/enjoyable." Therefore, higher scores will equal higher intrinsic motivation. The scores will then be summed which will make intrinsic motivation be measured at the interval level. The scores will range from 3-15. Researchers have determined inter-item reliability of alpha rating of 0.72, which is adequate reliability.

Pro-social will be measured on an ordinal level with 3 items on a five point likert scale based on Deci and Ryan's work (2008) (for more information see appendix D). Pro-social motivation is related to the desire to benefit others. For example, participants will be asked to what degree they agree or disagree with the following statement: "I enrolled in the nursing program because...I care about benefiting others through my work." Therefore, higher scores will equal higher pro-social motivation. The scores will then be summed which will make pro-social motivation be measured at the interval level. The scores will range from 3-15.

Emotion regulation. Expressive suppression will be measured on an ordinal level using 4 items based on the Emotion Regulation Questionnaire (ERQ) adapted from Gross and John (2003). Participants will be asked to respond to items on a 5-point likert scale to indicate to what degree they agree or disagree with questions about how often they hide or suppress their emotions (for more information see appendix D). Researchers reported alpha ratings between 0.68 and 0.76 (Gross and John, 2003). Higher scores will equal higher expressive suppression. The scores will then be summed which will make expressive suppression be measured at the interval level. The total sum will range from 4-20.

Cognitive reappraisal will be measured using 6 items also adapted from Gross and John (2003)

study which reported alpha ratings of between .75 and .82. Participants will be asked to respond to items on a 5-point likert scale to indicate to what degree they agree or disagree with questions about how often they hide or suppress their emotions (for more information see appendix D). Higher scores will equal higher cognitive reappraisal. The scores will then be summed which will make cognitive reappraisal be measured at the interval level. The total sum will range from 6-30.

Psychological well-being. Psychological well-being will be measured on an ordinal level using 12 items based on the Burnout and Inauthenticity in the Student Role scale adapted from Erickson and Ritter (2001). Participants will be asked to respond to a 4-point Likert scale (for more information see appendix D). Higher scores will equal higher burnout or inauthenticity. The scores will then be summed and measured at the interval level. The total sum will range from 0-32. Academic performance will be measured by interval level measurement of grade-point average (GPA) reported on the survey. This will be measured on a 4-point grading scale. The total will range from 0-4.

Demographic variables include age, gender, level of education, ethnicity, marital status, and grade point average (GPA).

Data Analysis Plan

Online data will be imported into SPSS 21, where descriptive statistics will be used to describe the sample and variables, i.e., determine percentages, means, and standard deviations, depending on levels of measure. The analysis to test the hypotheses will be Pearson correlational statistical procedures to determine the relationships between different types of motivation, emotion regulation, and psychological well-being. The level of statistical significance will be set at <0.05. Specifically, we will be testing the following hypotheses:

- H1: Extrinsic motivation will be positively_correlated with burnout.
- H2: Extrinsic motivation will be negatively correlated with academic performance (GPA).
- H3: Intrinsic motivation will be negatively correlated with burnout.
- H4: Intrinsic motivation will be positively correlated with academic performance.

- H5: Expressive suppression will be positively correlated with burnout.
- H6: Expressive suppression will be negatively correlated with academic performance (GPA).
- H7: Cognitive reappraisal will be negatively correlated with burnout.
- H8: Cognitive reappraisal will be positively correlated academic performance (GPA).

Time Line of Project Completion

We intend to submit our Honors Research project to the Honors College and to the UA IRB in the beginning of fall semester 2015. We will enroll in the seniors honors project independent study in the fall of 2015. In spring 2016, we will present our project at the University of Akron Student Innovation Symposium (UASIS). We will begin collecting data after receiving approval from the IRB. We will then analyze this data and write our results and discussion section at the end of the fall semester. For this project, our sponsor is Dr. Christine Heifner Graor. Our readers will include Dr. Rebecca Erickson and Ms. Kathryn Morgan.

References

- Bolton, S.C. (2000). Who cares? Offering emotion work as a "gift" in the nursing labour process. *Journal of Advanced Nursing*, 32(3), 580-586.
- Brummelhuis, L.L., Hoeven, C.L., Bakker, A.B., & Peper, B. (2011). Breaking through the loss cycle of burnout: The role of motivation. *Journal of Occupational and Organizational Psychology*, 84, 269-287.
- Buerhaus, P.I., Auerbach, D.I., & Staiger, D.O. (2009). The recent surge in nurse employment: Causes and implications. *Health Affairs*, 28(4), 657-668.
- Dill, J., Erickson, R.J., & Diefendorff, J.M. (2014). Motivation in caring labor: Implications for the well-being and employment outcomes of care workers. Manuscript submitted for publication.
- English, T., & John, O. P. (2013). Understanding the social effects of emotion regulation: The mediating role of authenticity for individual differences in suppression. *Emotion*, 13(2), 314.
- Erickson, R.J. & Ritter, C. (2001). Emotional Labor, Burnout, and Inauthenticity: Does Gender Matter? Social Psychology Quarterly, 64(2), 146-163.
- Gagne, M. & Deci, E.L. (2005). Self-determination theory and work motivation. *Journal of Organizational Behavior*, 26, 331-362.
- Gross, J.J., & John, O.P. (2003). Individual differences in two emotion regulation processes:

 Implications for affect, relationships, and well-being. *Journal of Personality and Social Psychology*, 85, 348-362.
- Moran, C.M., Diefendorff, J.M., Kim, T., & Liu, Z. (2012). A profile approach to self-determination theory motivations at work. *Journal of Vocational Behavior*, 81, 354-363.
- Nesje, K. (2014). Nursing students' prosocial motivation: Does it predict professional commitment and involvement in the job? *Journal of Advanced Nursing*, 71(1), 115-125.
- Newton, J. M., Kelly, C. M., Kremser, A. K., Jolly, B., & Billett, S. (2009). The motivations to nurse: an exploration of factors amongst undergraduate students, registered nurses and nurse

- managers. Journal of Nursing Management, 17(3), 392-400.
- Rosseter, R. (2012, March 22). 2001 AACN survey overview. *American Association of Colleges of Nursing*. Retrieved from http://www.aacn.nche.edu/news/articles/2012/enrollment-data
- Rosseter, R. (2014, April 24). Contributing factors impacting the nursing shortage. *American Association of Colleges of Nursing*. Retrieved from http://www.aacn.nche.edu/media-relations/NrsgShortageFS.pdf
- Ryan, R.M. & Deci, E.L. (2000). Self-determination theory and the facilitation of intrinsic motivation, social development, and well-being. *American Psychologist* 55(1), 68-78.
- The University of Akron (2015). Quickfacts. *About UA*. Retrieved from http://www.uakron.edu/about_ua/quick_facts.dot
- Tourangeau, A.E., Cummings, G., Cranley, L.A., Ferron, E.M., & Harvey, S. (2009). Determinants of hospital nurse intention to remain employed: Broadening our understanding. *Journal of Advanced Nursing*, 66(1), 22-32.
- Van der Walt, N. (2014). Burnout: When there is no more fuel for the fire. Southern African Journal of Anesthesia and Analgesia 19(3), 135-136.
- Watson, R., Deary, I. Thompson, D. & Li, G. (2008) A study of stress and burnout in nursing students in Hong Kong: A questionnaire survey. *International Journal of Nursing Studies*, 45(10), 1534-1542.
- Yin, J. C. T., & Yang, K. P. A. (2002). Nursing turnover in Taiwan: a meta-analysis of related factors. *International Journal of Nursing Studies*, 39(6), 57.

Appendix A

Review of Literature Table

APA	Problem.	Theoretical	Design of	Variables	Findings	Implication	Limitatio
formatted	Research	Framework	study, Level	and	Conclusions	S	ns of
reference	Purpose		of evidence,	measures/to			findings
	&/or		Site,	ols.			
	Research		Population,	Reliability			
	Question		Sampling	and validity			
			Method.	of			
			Sample Size.	measures/to			
			_	ols			
1)	Problem:	Conservati	Design:	Independen	The study	Employees	Self
Brummelh	Burnout is	on of	Nonexperime	t Variable	revealed	are able to	reports
uis, L. L.,	a stress	Resources:	ntal:	and tool:	support for	break	may have
Hoeven, C.	syndrome	what	longitudinal	Job	the loss	through the	led to
L., Bakker,	characteriz	people do		demands	cycle of	loss cycle	bias, low
A. B., &	ed by	when	Level of	and	burnout.	when they	response
Peper, B.	emotional	confronted	Analysis:	resources-	Employees	are	rate,
(2011).	exhaustion	by a	Level VIII	Job Content	experiencin	intrinsicall	convenie
Breaking	and	stressful		Questionnai	g burnout in	y	nce
through the	cynicism.	situation.	Site: Dutch	re	2005	motivated	sampling,
loss cycle	Burnout	This helps	subsidiary of	Intrinsic	gathered	at their	lack of
of burnout:	produces	explain the	an	motivation-	more job	jobs. It is	power
The role of	considerabl	process of	international	Bakker's	demands	important	analysis
motivation.	e negative	work-	financial	intrinsic	and lower	to	-
Journal	consequenc	related	consultancy	motivation	job	accommod	
Of	es for both	burnout.	firm	subscale of	recourses	ate the	
Occupatio	employees			the work-	over two	work	
nal &	and	Intrinsic	Population:	related flow	years. Also,	environme	
Organizati	employers	and	employees at	inventory	employees	nt with low	
onal		Extrinsic	the firm	Extrinsic	who do not	to	
Psycholog	Purpose	Motivation:		motivation-	have a	moderate	
y, 84(2),	Statement:	How	Sampling	Work-	positive	extrinsic	
268-287.	To examine	motivation	Method: a	Family	mood or	regulation	
doi:10.111	burnout as	affects the	Dutch web-	Culture	lack energy	and design	
1/j.2044-	process	loss cycle	based	Scale	will have	jobs that	
8325.2011.	overtime	of burnout.	questionnaire	V&R of	less	use	
02019.x	and		administered	tools: All	effective	intrinsic	
	investigate		in 2005 and	valid and	coping	motivation.	
Primary	whether		2007	reliable	skills,		
Source	intrinsic				leading to		
Quantitativ	job		Sample Size:	Dependent	an increase		
e Methods	motivation		352	Variable	in job		
	and		employees	and tool:	demands.		
	externally			burnout/	Intrinsic		
	regulated		Power	Maslach	motivated		
	job		Analysis: No	Burnout	people have		

motivation Inventory –	
attenuated General	coping skills
or Survey	and seek
aggravated	resources to
the loss V&R of	help handle
cycle. tool: Valid	-
and reliable	
Research	situations.
Question:	Extrinsical
Does Does	
	y motivated
burnout	people
foster	coping skills
future	are seen as
resource	passive
loss and	leading to
demand	more
accumulati	stressors.
on,	The findings
resulting in	support the
increased	view that an
levels of	increase in
future	demands
burnout?	resulting
Does	from
employees'	burnout was
type of	greater
motivation	among
(intrinsic	employees
VS.	scoring high
extrinsic)	on external
moderate	regulation
the loss	by the
cycle of	company.
burnout?	However,
	the results
	showed that
	intrinsically
	motivated
	employees
	were able to
	improve
	their job
	resources,
	but not to
	diminish
	their job
	demands. A
	possible
	explanation

					for this unexpected finding is that job demands are to a great extent prescribed by the company.		
2) Moran, C., Diefendorf f, J., Kim, T., & Liu, Z. (2012). A Profile Approach to Self-Determinat ion Theory Motivation s at Work. Journal Of Vocational Behavior, 81(3), 354-363.	Problem: not stated Purpose Statement: to determine how different types of motivation are linked to outcome in the work setting. Research Question: does taking a person- centered approach to SDT predict more variants than a variable- centered approach, and how?	Psychologi cal theory of work related self- determinati on	Design: Non-experimental Level of evidence: VII Site: China: Wuhan, Shanghai, and Guangzhou. Population: 12 large Chinese organizations, 1 hospital, 2 financial securities companies, 3 manufacturing companies, 1 service company, 2 real estate companies, 1 energy company, 2 government agencies. Sampling method: cluster sampling Sample size: 226	Variables: motivation, social support, job characteristics, In-role performance, psychologic al need satisfaction.	The presence or absence of intrinsic motivation in motivation profiles has a significant association with work related outcome, while the presence or absence of extrinsic motivation does not.	People who have greater self determined motivation versus extrinsic motivation tend to have more positive outcomes in terms of work performanc e and well being.	Use of one new motivatio n subscale.

3) Bolton, S. (2000). Who cares? Offering emotion work as a	Problem: Nursing work is emotionally complex and needs to be better	Theoretical: Emotional labour	employees and 62 supervisors Power analysis: Design: Single qualitative study Level of evidence: X	Variables: emotional work	Result: Offering patients extra emotional involvement resulted in	Implication s: It is important to further look at emotional	Limitatio ns: Subjectiv e weakness , closed
'gift' in the nursing labour process. Journal Of Advanced Nursing, 32(3), 580-586. doi:10.104 6/j.1365-2648.2000. 01516.x	Purpose statement: nursing work is emotionally complex and may be better understood by utilizing a combinatio n of Hochschild's concepts		Site: England Population: group of gynecology nurses in an English National Health Service [NHS] Trust hospital. Sampling method: purposive Sample size:		more emotional and stressful situations.	involvemen t to further research emotional well-being.	group with its own characteri stics and familiarit ies. Methods weakness , only analyzed the gynecolo gy nurses, may not be applicabl e to other
A) W1 -4	question: Is nursing work better understood by utilizing a combinatio n of Hochschild 's concepts?	The	not specified Power analysis:	December	Curley		areas of nursing.
4) Watson, R., Deary, I. Thompson, D. & Li,	Problem: stress in nursing students may be	The interactive or transaction al model of	Design: nonexperimen tal, correlational	Research variables: personality, stress, coping, and	Students suffered greater levels of psychologic	Undertakin g a nursing program leads to increased	Lack of power analysis, one site study,

	T -	T -	Τ	Τ.	T	T	T
G. (2008)	related to	stress by	Level of	burnout	al morbidity	level of	baseline
A study of	attrition	Lazarus.	evidence: VIII		and burnout	stress,	data not
stress and	from	These		Tools: NEO	at the	burnout	measured
burnout in	nursing	nursing	Site:	Five factor	second time	and	,
nursing	programs	students	university	inventory,	wave and	psychologi	convenie
students in	and lead to	will all be	school of	general	this was	cal	nce
Hong	a shortage	individuals	nursing in	health	largely	morbidity	sampling
Kong: A	of nurses	taking into	Hong Kong	questionnair	explained	and this is	
questionna	entering	their		e, Maslach	by the	largely	
ire survey.	clinical	programs a	Population:	Burnout	personality	related to	
Internation	careers.	range of	nursing	Inventory,	trait of	individual	
al Journal		personality	students	Coping	Neuroticism	personality	
of Nursing	Purpose	types and	entering the	Inventory		and coping	
Studies,	Statement:	coping	nursing	for Stressful	Stress also	traits.	
<i>45</i> (10),	to study the	strategies	program	Situations,	increased	Programs	
1534-	interrelatio	providing		Stress in	and this was	to reduce	
1542.	nship	responses	Sampling	Nursing	largely	this stress	
	between a	to	method:	students	explained	should be	
Primary	range of	stressful	questionnaire		by Emotion	carried out.	
Quantitativ	psychologi	situations;	1	R&V: all	oriented		
e data	cal	therefore,	Sample size:	tools have	coping.		
	variables	the	147 students	proven to be			
	including	interaction		reliable and			
	personality,	between	Power	valid			
	stress,	their	analysis: no				
	coping and	circumstan	a a ja a a				
	burnout	ces and					
		their					
	Research	responses					
	Question:	are of					
	Is there a	interest. In					
	relationship	the case of					
	between	nursing					
	personality,	students,					
	stress,	the kind of					
	coping, and	stress					
	burnout?	resulting					
		from					
		this					
		transaction					
		between					
		stimuli and					
		responses					
		is classified					
		as					
		occupation					
		al or work					
		related					
		stress					
		al or work related					
	1	311033			1		

5) Nesje,	Problem:	No	Design:	Research	The results	The results	One-site
K. (2014).	Prosocial	theoretical	nonexperimen	variable:	showed that	indicated	study,
Nursing	behavior is	framework	tal,	prosocial	prosocial	that	lack of
students'	both	given	descriptive	motivation	motivation	prosocial	power
prosocial	associated	8	r		measured in	motivation	analysis,
motivation	with		Level of	Tool: career	their last	is	convenie
: Does it	positive		Evidence:	commitment	academic	important	nce
predict	rewards for		VIII	scale, job	year was	in	sampling
profession	the helper,			involvement	related to	identifying	
al	but can also		Site: large	questionnair	career	with the	
commitme	be		university	e	commitment	profession	
nt and	experience		-		three years	but not	
involveme	d as taxing.		Population:	R&V: the	after	necessarily	
nt in the			nursing	tools have	graduation,	for	
job?	Purpose		students	been tested	but	personal	
Journal of	Statement:		entering their	to be	unrelated to	involvemen	
Advanced	how		career after	reliable and	job	t in the	
Nursing,	prosocial		graduation	valid	involvement	job. The	
<i>71</i> (1), 115-	motivation					study gives	
125.	reported by		Sampling			important	
	nursing		Method:			knowledge	
Primary	students		survey with a			on how a	
Quantitativ	relates to		longitudinal			commonly	
e data	career		design			reported	
	commitmen		a 1 ·			motivation	
	t and job		Sample size:			for entering	
	involvemen		160 nurses			nursing	
	t three		D			relates to	
	years after		Power			the nurses'	
	graduation		analysis: no			attitudes about their	
	Research					work life.	
	Question:						
	does						
	prosocial						
	motivation						
	relate to						
	career						
	commitmen						
	t and job						
	involvemen						
6) English,	t> Problem:	Theoretica	Design: Non	Independen	Findings	Implicatio	Limitati
T., & John,	Differences	l	experimental	t variable	Conclusion	ns	ons
O. (2013).	in emotion	framewor	- correlational	and tool:	S	44.5	UIID
Understan	regulation	k:	and regression	Suppression		Suppressio	The study
ding the	strategies			, reappraisal	In our day	n of our	hypothesi
social	can	Emotional	Level of	FF Manual	to day lives	real	zed
effects of	differentiall	regulation	Evidence:	V&R of	we often try	emotions	causal
					· · · · · · · · · · · · · · · · · · ·		

			1 10	41	1 ,	1, 1	CC 4
emotion	y influence		level 8	tool:	to regulate	results in	effects
regulation:	social		C!4 E4	D l 4	our	inauthentici	but could
The	outcomes.		Site: East	Dependent	emotions to	ty.	not
mediating	D		Asia	Variable	facilitate		provide
role of	Purpose		Population:	and tool:	smooth		evidence
authenticit	statement: To		Campling	social	interactions but		of them, another
y for individual	understand		Sampling	outcome	emotional		limitation
differences	social		Method: convenient				was its
1.	effects of		Convenient		regulation may not		reliance
in suppressio	emotional		Sample Size:		always have		on self-
n.	regulation		Study 1: 157		a good		report.
Emotion,	regulation		students		impact on		report.
13, 314-	Research		enrolled in		social		
329.	question:		introduction		functioning.		
	question.		to psychology		i i i i i i i i i i i i i i i i i i i		
	Does		courses at a				
	suppression		public				
	lead to		university.				
	more		Study 2: 114				
	negative		undergraduate				
	social		students at a				
	outcomes?		university in				
			mainland				
			China.				
			Study 3: 106				
			women born				
			in the late				
			1930's.				
			_				
			Power				
7) C	D . 11	(TD)	Analysis: No	T . 1 1	T2' 1'	T 1* 4* .	T * *4 . 4*
7) Gross,	Problem:	Theoretica	Design:	Independen	Findings	Implicatio	Limitati
J., & John,	To examine	fuomovios	Non Experimental	t variable	Conclusion	ns	ons
O. (2003). Individual	the	framewor	Experimental - correlational	and tool:	S	Dognardica	Reliance
differences	consequenc es of	k:	Level of	Expressive Suppression	Deannraiger	Reappraise rs should	on self-
in two	emotion	Process	Evidence: 8	, cognitive	Reappraiser s experience	have	report
emotion	regulation	model of	Evidence: o	reappraisal	more	greater life	report
regulation	strategies	emotional	Population:	Teappraisai	positive	satisfaction	
processes:	strategies	regulation	undergraduate		emotions	and well	
Implicatio	Research	105010011	students	Dependent	and less	being.	
ns for	question:			Variable	negative	,	
affect,	Do		Sampling	and tool:	emotions		
relationshi	individuals		Method:		than		
ps, and	differ in		convenient	Well-being,	suppressors.		
well-being.	their use of			life			
Journal of	emotion		Sample Size:	satisfaction,			
Personalit	regulation		participants	affect,	1	1	

	T	T	1	1	ı	T	
y and	strategies?		were drawn	relationship			
Social	If so, do		from four	S.			
Psycholog	these		undergraduate				
<i>y</i> , 85, 348-	differences		samples with				
362.	have		a total sample				
	important		N=1,483				
	implication						
	s for		Power				
	adaptation?		Analysis: No				
8)	Problem:	Theory of	Design: Non-	Research	Focus group	To promote	Small
Tourangea	Worsening	reasoned	experimental,	variable:	data yielded	retention of	sample,
u, A.E.,	shortage of	action:	descriptive	nurse	eight	hospital	one-site
Cummings	nurses	suggests	1	intention to	thematic	nurses,	study,
, G.,	means that	that	Level of	remain	categories	focus	lack of
Cranley,	efforts	attitudes	Evidence:	employed	of factors	should	power
L.A.,	must be	affect	VIII		influencing	be placed	analysis,
Ferron,	made to	decisions		Tool: semi-	hospital	on	tool may
E.M., &	promote	and	Site: six	structured	nurse	modifying	be not
Harvey, S.	retention of	ultimately	hospitals	question	intention to	work	valid or
(2009).	nurses.	behavior	позришь	guide	remain	environme	reliable
Determina	narses.	Accordingl	Population:	guide	employed:	nt and	Tenable
nts of	Purpose	y, nurse	RN working	V&R:	relationship	organizatio	
hospital	Statement:	attitudes	on medical,	questionable	s with co-	n	
nurse	to identify	about work	surgical, or	questionable	workers,	characterist	
intention	nurse	affect their	critical care		condition of	ics rather	
to remain	reported	decisions	hospital		the work	than on	
	determinant		-				
employed: Broadenin	s of	(intentions)	areas		environment	modifying	
	intention to	to remain	Compling		, moletionship	nurses and nurse	
g our understand		employed and	Sampling Method:		relationship with and	behaviors.	
	remain					benaviors.	
ing.	employed	ultimately	Focus groups		support		
Journal of	and to	their	G 1 G:		from one's		
Advanced	develop a	actions	Sample Size:		manager,		
Nursing,	model	(retention	78 RNs		work		
66(1), 22-	explaining	or	D		rewards,		
32.	determinant	termination	Power		organization		
.	s of).	Analysis: no		al support		
Primary	hospital				and		
source	nurse				practices,		
Qualitative	intention to				physical		
data	remain				and		
	employed.				psychologic		
	_				al responses		
	Research				to work,		
	Question:				patient		
	what are				relationship		
	the				S		
	determinant				and job		
	s for nurse				content, and		

9) Yin, J. Pro C. T., & Wi Yang, K. shr P. A. hea (2002). buc Nursing conturnover in Taiwan: a resometa- analysis of contelated der factors. Int ernational efformational of hea Nursing sys Studies, 39 (6), 573 institution of nur wood has of 1	onsumer emands or a more fective ealth care ystem in aiwan, the istability	Theoretica l Framewor k: A total of 4032 subjects were selected for the study. Data were integrated by estimation of	Design: meta-analyses Level of Evidence: level 7 Site: Taiwanese hospital Population: Nurses	Independen t variable and tool: V&R of tool: Friedman two way analyses Dependent Variable	external factors. Findings Conclusion s: Taiwanese health care environment, it is crucial to address those factors that affect	The results of this study merit attention by administrat ors in order to develop useful retention	Limitati ons: Organizat ional factors such as financial compens ation, leadershi
9) Yin, J. C. T., & Wi Yang, K. shr P. A. hea (2002). buc Nursing cor turnover in Taiwan: a rese meta- analysis of related der factors. Int ernational Journal of Nursing Studies, 39 (6), 573 insi of nur wo has	roblem: Vith the nrinking ealth care udget, onstrained uman esources, ad onsumer emands or a more effective ealth care vstem in aiwan, the estability	Framewor k: A total of 4032 subjects were selected for the study. Data were integrated by estimation	meta-analyses Level of Evidence: level 7 Site: Taiwanese hospital Population:	t variable and tool: V&R of tool: Friedman two way analyses Dependent	Findings Conclusion s: Taiwanese health care environment , it is crucial to address those factors	of this study merit attention by administrat ors in order to develop useful	ons: Organizat ional factors such as financial compens ation,
C. T., & Wi Yang, K. P. A. hea (2002). Nursing turnover in Taiwan: a meta-analysis of related factors. Int ernational Journal of Nursing Studies, 39 (6), 573 instoof nur wo has of 1	Vith the arinking ealth care adget, constrained aman esources, and consumer emands or a more affective ealth care extem in aiwan, the astability	Framewor k: A total of 4032 subjects were selected for the study. Data were integrated by estimation	meta-analyses Level of Evidence: level 7 Site: Taiwanese hospital Population:	t variable and tool: V&R of tool: Friedman two way analyses Dependent	Conclusion s: Taiwanese health care environment , it is crucial to address those factors	of this study merit attention by administrat ors in order to develop useful	ons: Organizat ional factors such as financial compens ation,
Yang, K. P. A. (2002). Nursing turnover in Taiwan: a meta- analysis of related factors. Int ernational Journal of Nursing Studies, 39 (6), 573 insi of nur wo has	arinking ealth care adget, constrained aman esources, and consumer emands or a more effective ealth care extem in aiwan, the astability	Framewor k: A total of 4032 subjects were selected for the study. Data were integrated by estimation	Level of Evidence: level 7 Site: Taiwanese hospital Population:	v&R of tool: Friedman two way analyses Dependent	raiwanese health care environment, it is crucial to address those factors	study merit attention by administrat ors in order to develop useful	Organizat ional factors such as financial compens ation,
P. A. head (2002). Nursing turnover in Taiwan: a metanallysis of related factors. International Journal of Nursing Studies, 39 (6), 573 instoof nurwood has of the control	ealth care udget, onstrained uman esources, and onsumer emands or a more effective ealth care extem in aiwan, the estability	k: A total of 4032 subjects were selected for the study. Data were integrated by estimation	Evidence: level 7 Site: Taiwanese hospital Population:	V&R of tool: Friedman two way analyses Dependent	Taiwanese health care environment , it is crucial to address those factors	attention by administrat ors in order to develop useful	ional factors such as financial compens ation,
(2002). buc consumptions of turnover in Taiwan: a metanalysis of related factors. International Journal of Nursing Studies, 39 (6), 573 instoof nur woo has of the consumption of the co	adget, onstrained aman esources, ad onsumer emands or a more ealth care extem in aiwan, the astability	A total of 4032 subjects were selected for the study. Data were integrated by estimation	Evidence: level 7 Site: Taiwanese hospital Population:	tool: Friedman two way analyses Dependent	health care environment , it is crucial to address those factors	by administrat ors in order to develop useful	factors such as financial compens ation,
Nursing turnover in Taiwan: a meta-analysis of related factors. Int ernational Journal of Nursing Studies, 39 (6), 573 instof nur woo has of the studies of	onstrained uman esources, and onsumer emands or a more ealth care estem in aiwan, the estability	subjects were selected for the study. Data were integrated by estimation	level 7 Site: Taiwanese hospital Population:	tool: Friedman two way analyses Dependent	environment , it is crucial to address those factors	administrat ors in order to develop useful	such as financial compens ation,
turnover in Taiwan: a meta- analysis of related factors. Int ernational Journal of Nursing Studies, 39 (6), 573 instoof nur wo has of 1	uman esources, and onsumer emands or a more efective ealth care extem in aiwan, the estability	subjects were selected for the study. Data were integrated by estimation	Site: Taiwanese hospital Population:	tool: Friedman two way analyses Dependent	, it is crucial to address those factors	ors in order to develop useful	financial compens ation,
Taiwan: a resonant metanalysis of related der factors. International Journal of Nursing Studies, 39 (6), 573 instead of nur wood has of the state of	esources, and onsumer emands or a more effective ealth care ystem in aiwan, the astability	were selected for the study. Data were integrated by estimation	Taiwanese hospital Population:	Friedman two way analyses Dependent	to address those factors	to develop useful	compens ation,
meta-analysis of related der factors. Int ernational Journal of Nursing Studies, 39 (6), 573 instoof nur woo has of 1	onsumer emands or a more effective ealth care ystem in aiwan, the estability	selected for the study. Data were integrated by estimation	Taiwanese hospital Population:	two way analyses Dependent	address those factors	useful	ation,
analysis of related der factors. Int ernational Journal of Nursing Studies, 39 (6), 573 inst of nur wo has of 1	onsumer emands or a more fective ealth care ystem in aiwan, the istability	the study. Data were integrated by estimation	hospital Population:	analyses Dependent	those factors		
related der factors. Int ernational effective derivational of head systems of	emands or a more effective ealth care ystem in aiwan, the estability	Data were integrated by estimation	Population:	Dependent		retention	IAGGATCH1
factors. Int ernational Journal of Nursing Studies, 39 (6), 573 inst of nur wo has	or a more Efective ealth care ystem in aiwan, the estability	integrated by estimation	_	-	i inai arreci	-44:	
ernational Journal of Nursing Studies, 39 (6), 573 inst of nur wo has	fective ealth care extem in aiwan, the estability	by estimation	Nurses	Variable		strategies.	p styles,
Journal of Nursing sys Studies, 39 (6), 573 instoof nur woo has	ealth care ystem in aiwan, the astability	estimation		1 14 1	the stability	As health	and
Nursing sys Studies, 39 Tai (6), 573 inst of nur wo has	ystem in aiwan, the astability		1	and tool:	of nursing	care	staffing
Studies, 39 Tai (6), 573 instruction of nur wo has of 1 nur	aiwan, the stability	O.T.	G1	nursing	workforce,	systems	
(6), 573 inst of nur wo has of 1	stability	of	Sample	turnover	quality of	undergo	
of nur wo has of n		parametric	Size: 69-725		patient care	significant	
nur wo has of i	c	correlation			and nurses'	changes,	
wo has of i		coefficients	_		work life.	cost	
has of 1		, and	Power			containmen	
of i	orkforce	analyzed	Analysis:			t efforts	
	as become	using				and	
20**	f major	Friedman's				restructurin	
Cor	oncern to	two-way				g have	
nur	urse	analysis of				resulted in	
ma	anagers	variance by				cutbacks in	
		ranks				RN	
	_	following				positions	
	atement:	weight					
	he results	adjustment					
	f this	of sample					
	udy merit	size and					
	tention by	estimation					
	ursing	of					
	lministrat	correlation					
ors	rs in order	effect on					
to	develop	size of					
	rategies	variables.					
for							
stal	abilizing						
the	e nursing						
wo	ork force						
Re							
Qu	esearch						

		1	1	I	I		
	A meta-						
	analytic						
	study was						
ļ	conducted						
	to						
	investigate						
	the causal						
	relationship						
	s among						
ļ	individual,						
	organizatio						
	nal and						
ļ	environmen						
ļ	tal factors						
	related to						
	nurses'						
	intention to						
	stay at or						
	leave their						
	jobs in						
	Taiwanese						
10)	hospitals.	(D)	Desire	T . 1 1	T3' 1'	T 11 41 .	T ••4 . 4•
10)	Problem:	Theoretica	Design:	Independen	Findings	Implicatio	Limitati
Newton, J.	Recruitmen	I	Quasi-	t variable	Conclusion	ns:	ons:
M., Kelly,	t and	Framewor	experimental	and tool:	S:	Managers	Motivatio
C. M.,	retention of	k:	Level of Evidence:	Envisonmen	These	need to be	nal
Kremser,	nurses is a	This paper		Environmen	themes	cognizant	factors
A. K.,	worldwide concern	presents initial	Level 7 Site:	t salary	represented	of nurses_	were limited
Jolly, B., & Billett,	that is	interview		position	individuals_ motivation	underlying values and	mmtea
S. (2009).	associated	data from a	Population:	V&R of	to enter	motivators	
3. (2009). The	with		2 and 3 year	tool:		in	
motivation	several	longitudina l multi	Nursing students	1001.	nursing and sustain them	addressing	
s to nurse:	compoundi	method	Students	Dependent	in their	recruitment	
an	ng factors,	study with		Variable	careers as	and	
exploration	primarily	29	Sample Size:	and tool:	either nurses	retention	
of factors	the high	undergradu	42	attrition rate	or managers	issues.	
amongst	attrition of	ate student	12	autition face	or managers	Strategies	
undergradu	its new	nurses, 25	Power			need to be	
ate	graduates	registered	Analysis:			considered	
students,	and an	nurses	no			at both unit	
registered	ageing	(RNs), six				and	
nurses and	workforce	Nurse				organizatio	
nurse		Unit				nal levels	
managers.		Managers				to ensure	
Journal of		(NUMs)				that	
Nursing		and four				the _desire	
Manageme	Purpose	Directors				to care_	
	I ui posc	Directors				to care_	

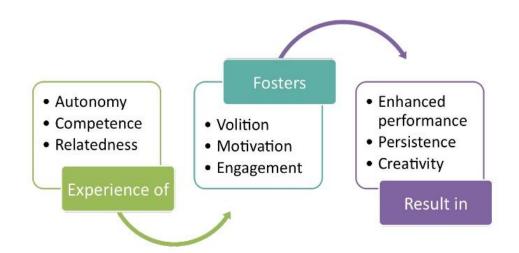
392-400.	To identify what motivates individuals to engage in a nursing career.	(DoNs) from four hospitals across a healthcare organizatio n in Australia				become lost.	
	Research						
	Question:						
11) Dill, J.,	Problem:	Theoretica	Design:	Independen	Findings	Implicatio	Limitati
Erickson,	gendered	1	experimental	t variable	Conclusion	ns:	ons:
R.J., &	assumption	Framewor	Level of	and tool:	s:	Workers	
Diefendorf	s that	k:	Evidence:	Intrinsic	Our	with high	
f, J.M.	altruistic	how	Level 7	motivation	findings	intrinsic	
(2014).	motivations	motivations	Site:	factors and	suggest that	and	
Motivation	are the	influence	Midwestern	extrinsic	nurses who	extrinsic	
in caring	"right"	care	U.S.	170 D . C	have high	motivations	
labor:	reasons for	workers'	Population:	V&R of tool:	intrinsic and extrinsic	for	
Implicatio ns for the	being a nurse and	experience of		1001:	motivation	working in nursing are	
well-being	lead to the	work, their		Dependent	actually	also	
and	best	well-being,	Sample Size:	Variable	have better	significantl	
employme	outcomes	and their	730 acute care	and tool:	perceived	y more	
nt	for workers	commitme	hospital	nursing	health and	committed	
outcomes	and	nt to their	nurses	attrition	employment	to their	
of care	patients	employer		rates	outcomes	jobs	
workers.			Power		(i.e., less		
Manuscript			Analysis: no		likely to say		
submitted					that they		
for					will leave,		
publication					lower		
•	Purpose				burnout,		
	statement: For nurses				fewer		
	and other				negative physical		
	caregivers				symptoms)		
	there is a				than those		
	strong				with high		
	emphasis				prosocial		
	on				motivation,		
	prosocial				who are		
	forms of				more likely		
	motivation,				to report job		
	or				burnout.		
	doing the						

Г		ı	
job because			
you want to			
help others,			
even in			
formal,			
institutional			
ized care			
settings			
Research			
Question:			
why people			
choose a			
career that			
involves			
providing			
care in a			
formal			
context			
typically			
focuses on			
whether			
individuals			
are			
motivated			
by "love or			
money"			

Appendix B

Self-Determination Theory (SDT)

(Ryan & Deci, 2000)



Appendix C

Consent Form

Title of Study: Relationship among motivation, emotional regulation, and psychological well being of sophomore and junior level nursing students

Introduction: You are invited to participate in a research project being conducted by Aryene Delgado, Doug Garner, and Nicole Langhals, nursing students in the College of Health Professions, School of Nursing at The University of Akron.

Purpose: The purpose of this project is to study the relationship between motivation, emotional regulation, and psychological well being of sophomore and junior level nursing students.

Procedures: If you volunteer to participate in this study, you will be asked to complete a short, online survey about what motivated you to go to nursing school, as well as how you felt when facing certain experiences. It will take less than 10 minutes to complete the survey. Additionally, you will be asked to give some information about your age, gender, level of education, ethnicity, marital status, and grade point average (GPA). You will not be asked to give any identifying information at any time. You are eligible to participate in the study if you are enrolled in traditional undergraduate nursing program and at least 18 years old. You are not eligible if you are an accelerated nursing student or a student in the RN/BSN, LPN/RN, or graduate nursing programs. No persons will be excluded based on gender, ethnicity, race, sexual orientation, marital status, or age as long as they are 18 years or older. Benefits and Risks: You will receive no direct benefit from your participation in this study, but your participation may help us better understand the relationship between motivation, emotional regulation, and psychological well being in undergraduate nursing students. You will complete the survey at your leisure and in a comfortable, secure, and private environment. In case you feel the need to talk with a counselors and health care provider after completing this survey, please contact: (1) The Counseling Center, Simmons Hall 306, Phone: 330-972-7082, Website: http://www.uakron.edu/counseling/ and/or (2) Student Health Services, Student Recreation and Wellness Center, Suite 260, Phone: 330972-7808 Website: http://www.uakron.edu/healthservices/

Right to refuse or withdraw: Participation is voluntary. Refusal to participate or withdraw from the study at any time will involve no penalty. Failure to participate in no way affects your academic standing.

Anonymous and Confidential Data Collection: No identifying information will be collected, and your anonymity is further protected by not asking you to sign and return the informed consent form. Confidentiality of Records: Data are collected with an online survey. The survey is loaded into Qualtrics or Survey Monkey, both electronic survey software programs. You will complete the survey electronically and at your own convenience. Electronic survey completion means that data are automatically entered into a data set. Disconnecting participants from their surveys is also related to protection of human participants. Data may be made available for future research purposes; however, no identifying information would be collected nor distributed during this or any other stage of the research process.

Who to Contact with Questions: If you have any questions about this study, you may contact Aryene Delgado (aca23@zips.uakron.edu), Doug Garner (dg62@zips.uakron.edu), and Nicole Langhals (nel22@zips.uakron.edu), or Christine Heifner Graor, PhD (Advisor) at (330) 972-6422 or graor@uakron.edu. This project has been reviewed and approved by The University of Akron Institutional Review Board. If you have any questions about your rights as a research participant, you may call the IRB at (330) 972-7666.

Acceptance & Signature: I have read the information and voluntarily agree to participate in this study. My completion and submission of this survey will serve as my consent. I may print a copy of this consent statement for future reference.

Now, begin to complete the survey!

Appendix D Questionnaire

Burnout and Inauthenticity in the Student Role

Adapted from Erickson, R. J. and Ritter, C. (2001). Emotional labor, burnout, and inauthenticity: Does gender matter? *Social Psychology Quarterly* 64,146-163.

Thinking about your experiences in the school of nursing program so far, to what extent have you experienced the following?

- 0 Not at all
- 1 A little
- 2 Somewhat
- 3 A lot

I feel emotionally drained. (BO)

I feel used up at the end of the day. (BO)

I dread getting up in the morning and having to face another school day. (BO)

The BS/MD program really puts a lot of strain on me (BO)

I feel burned out from the program. (BO)

The BS/MD program puts too much stress on me. (BO)

I feel I work too hard in this program. (BO)

To get through the program, I feel like I have to become mechanical or robot-like. (IA)

During my time in the nursing program, I have become unsure of what my 'real' feelings are. (IA)

I worry that this job is hardening me emotionally. (IA)

I don't feel like I can be myself when interacting with others related to the nursing program. (IA)

I have to fake how I really feel when interacting with others in the nursing program. (IA)

I basically have to become a different person to get through the nursing program. (IA)

"Why are you motivated to become a physician?" (Based on Deci & Ryan's work and Grant [2008]; modified version of the scale in Moran, C. M., Diefendorff, J. M., Kim, T., & Liu, Z. (2012). A profile approach to self-determination theory motivations at work. Journal of Vocational Behavior, 81, 354-363.)

1	2	3	4	5
Strongly	Somewhat	Neither Agree	Somewhat	Strongly
Disagree	Disagree	nor Disagree	Agree	Agree

Why are you motivated to become a registered nurse?

1.	Because other people in my life expect it.	(Extrinsic)
2.	Because I would get paid well.	(Extrinsic)
3.	Because others would be let down if I did not become a nurse .	(Extrinsic)
4.	Because I would feel guilty if I did not.	(Introjected)
5.	Because I would feel ashamed if I did not.	(Introjected)
6.	Because I would feel bad about myself if I did not.	(Introjected)
7.	Because I believe the work is valuable.	(Identified)
8.	Because the work is important.	(Identified)
9.	Because I value the work.	(Identified)
10.	Because I think the work would be interesting.	(Intrinsic)
11.	Because I think the work would be fun.	(Intrinsic)

12. Because I think I would find the work engaging. (Intrinsic)

13. Because I care about benefiting others through my work. (Prosocial)

14. Because I want to help others through my work. (Prosocial)

15. Because I want to have a positive impact on others. (Prosocial)

Emotion Regulation Questionnaire (ERQ) – Gross & John, 2003

Gross, J.J., & John, O.P. (2003). Individual differences in two emotion regulation processes: Implications for affect, relationships, and well-being. *Journal of Personality and Social Psychology*, 85, 348-362.

1	2	3	4	5
Strongly	Somewhat	Neither Agree	Somewhat	Strongly
Disagree	Disagree	nor Disagree	Agree	Agree

Supression and Reappraisal Items:

- a. I control my emotions by changing the way I think about the situation I'm in. (reappraisal)
- b. When I am feeling negative emotions, I make sure not to express them. (suppression)
- c. When I want to feel more positive emotion (such as joy or amusement), I change what I'm thinking about. (reappraisal)
- d. I keep my emotions to myself. (suppression)
- e. When I want to feel less negative emotion (such as sadness or anger), I change what I am thinking about. (reappraisal)
- f. When I'm faced with a stressful situation, I make myself think about it in a way that helps me stay calm. (reappraisal)
- g. When I want to feel more positive emotion (such as joy or amusement), I change the way I'm

thinking about the situation. (reappraisal)

- h. I control my emotions by not expressing them. (suppression)
- i. When I want to feel less negative emotion (such as anger or sadness), I change the way I'm thinking about the situation. (reappraisal)
- j. When I am feeling positive emotions, I am careful not to express them. (suppression)