Mentoring Nurse Practitioner Colleagues: Implementing an Online Program

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#### Abstract

The mentor role can help support the experienced nurse practitioner (NP) enhance a sense of belonging and commitment to the organization; however, NPs identify barriers of time, dedication, and lack of knowledge about mentoring. Current mentoring programs in Arizona are sporadic and formal training for the mentor is even more limited. In this project, an online training intervention to develop mentorship skills was provided for experienced NPs who viewed three video sessions of 20-25 minutes each. The topics (Open Communication & Accessibility; Mutual Respect & Trust; Independence & Collaboration) focused on developing key mentoring competencies identified from the literature. Participants did not report a significant increase in their mentoring skills after the video sessions, but they identified useful individual outcomes. Participants identified the need to formalize the experience with objectives for both the mentee and mentor and recommended seeking out the novice NP to build a mentoring relationship.

The project outcomes led to several recommendations. To support ongoing mentor relationships, organizations may need to push training out to their experienced NPs on the role of the mentor. Mentors who do not self-identify for remediation or training may need organizations to provide the training and not make it optional. Community and professional organizations like the Arizona Board of Nursing, Arizona Nurses Association and others could create training modules utilizing multiple platforms to reach NPs in rural and urban parts of the state. Finally, further projects are necessary to identify the most effective modalities when delivering training.

Keywords: Nurse Practitioner, Mentor, Mentor Training, Mentee, Self-Efficacy

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Mentoring has been effective in reducing turnover, increasing organizational commitment, increasing employee investment in organizational success, improving job satisfaction, and decreasing role ambiguity. Evidence supports the improvement in professional efficacy and promotion of career growth for both mentor and mentee (Faraz, 2019; Meier, 2013; Brook et al., 2019). Recent evidence has stressed the importance of a strong mentor relationship between the novice and experienced Nurse Practitioner (NP) (Zhang et al., 2015; Faraz, 2017; Jnah & Robinson, 2015; Horner, 2017). The expressed commitment of organizations to implement mentor programs for novice nurse practitioners and nurse practitioners moving into specialty areas is increasing across the country. Still, there is growing evidence that the experienced NP is not actively engaging in supporting colleagues (Dean, 2017). Experienced NPs who are making a difference at the bedside, in the community, and the classroom report they are struggling to find the time, confidence, and support needed to mentor future nurse practitioners. NPs express concern over their ability to mentor (Jarrell, 2016; Jnah, & Robinson, 2015; Jones, 2017; Faraz, 2017).

This paper will review the current literature for reasons why the experienced NP is not engaging in mentoring activities, examples of interventions to enhance engagement, and finally, provide a description of an evidence-based initiative to implement a mentoring program utilizing asynchronous online modules.

#### **Purpose and Rationale**

As nurse practitioners are critical to the future of sustainable healthcare, many organizations are examining ways to protect their investments in their employees. Recruiting, hiring, onboarding, and training new nurse practitioners can take up to 12 months without a return on investment if the newly hired NPs leave the organization. Organizations must look at ways to retain staff, including providing support through mentorship. The mentor is the sounding board, guide, and confidant who can help novice nurse practitioners achieve their highest potential. However, many experienced NPs report feeling uncomfortable in the mentor role and express needs for their support and guidance as mentors (Jnah and Robinson, 2015; Faraz, 2017). The purpose of this project was to evaluate the outcomes of an evidence-based education program implemented to enhance the mentoring skills of experienced nurse practitioners.

### Significance of the Problem

The importance of highly qualified NPs in the workforce is growing. The United States Department of Health and Human Services (HHS) (2016) projects a shortage of 23,640 full-time physicians by 2025. HHS proposes that effective incorporation of NP services in care delivery could improve access to primary care services and mitigate disparities in underserved rural areas. According to the American Association of Nurse Practitioners (2017), NP numbers have grown from approximately 106,000 in 2004 to 234,000 as of 2017, with a speculated 36 percent increase in the need for NPs by 2025 (US Department of Health and Human Services, 2016). This significant growth in the NP workforce will require planning to attract, retain, and mentor newly hired nurse practitioners in health organizations.

In 2006, Fellows of the American Association of Nurse Practitioners (FAANP) sponsored a think tank to explore the mentoring needs of students, recent graduates, and seasoned nurse practitioners (those with 5 or more years of clinical experience). The participants identified three groups that could serve as mentors for the newly graduated nurse practitioner: faculty, NP graduates with one-two years of experience, and seasoned NPs. They further acknowledged that experienced graduates can mentor in either the formal workplace or informal settings. The think tank participants recommended that the seasoned practitioners receive recommendations for formal training programs and tool kits to develop their mentoring competencies (FAANP, 2006). Action recommendations from the think tank included: mentoring toolboxes, formal mentoring programs through local, state, and national NP organizations, guidelines for mentoring, and enhancing programs within schools of nursing and other educational institutions (FAANP, 2006). In 2019, the American Nurses Credentialing Centered implemented a requirement for mentoring to the ANCC Magnet© application. Organizations must show evidence of positive quality outcomes related to evidence-based mentor programs for all levels of nursing practice, including the Advanced Practice Registered Nurse (ANCC, 2017).

#### **Internal Evidence**

In Arizona, the average age of nurse practitioners is 54, with many anticipated retirements over the next ten years. Arizona has a 3% increase annually in newly licensed NPs (Arizona Board of Nursing, 2019), creating a growing need to mentor these new nurse practitioners. Just as new nurse practitioners need support to learn their clinician roles, experienced NPs need assistance to take on the essential part of guiding and teaching novice NPs (Faraz, 2019). Evidence supports the development of mentoring programs to decrease staff turnover, increase the intent to stay and promote positive satisfaction is robust in higher education, business, and in nursing with emerging evidence applicable to the nurse practitioner (Taylor et al., 2017; Brook et al., 2019).

The need to train experienced nurse practitioners with mentoring skills led to the following PICOT question:

In experienced nurse practitioners (NPs) (P), how does mentorship education (I), compared to no mentorship education (C), affect their role development and satisfaction as a mentor (O), over a two-hour training program (T)?

### **Literature Review**

### **Search Strategy**

The search strategy included evidence-based, peer-reviewed scholarly work, including doctoral theses and dissertations within the last ten years, January 2009 – December 2019. The initial search focused on the mentor/mentee relationship and the value of a structured mentoring program for career advancement, job satisfaction, and intent to stay. Additional searches examined confidence in the mentoring process for the mentor and measurements for evaluating mentoring behaviors and attitudes.

PubMed, Cochrane, CINAHL, MEDLINE, and PsychINFO databases were searched. Several articles looked at mentoring in residencies, fellowships, and orientation programs. Nurse practitioners were referenced in a variety of ways; therefore, additional search terms used included *nurse practitioner, advanced practice provider, advanced practice registered nurse, and midlevel.* Increasing the search to encompass *academic medicine, registered nurse, nursing faculty, and healthcare leaders* increased search results.

Limited results were found focusing on the nurse practitioner, so other industries and professionals were identified that may have similar needs for mentorship. ProQuest ABI/INFORM, Advanced Technologies, and Aerospace were searched for evidence in business, management, law enforcement, military, and aerospace. Searching for *mentor; mentee,* and *mentoring,* along with *satisfaction* and *turnover,* yielded over 4,000 responses in the broader disciplinary databases. After including *confidence, mentoring framework, role development,* 

*training*, and *retention*, the restricted search led to 104 scholarly articles. Further limits were applied to remove fellowships, residencies, children, teenagers, and undergraduate college students.

Evidence from the ProQuest ERIC database was most robust regarding mentorship in academia; multiple records were identified. After placing limits as defined above, 23 articles were designated for further review. The relationship between novice faculty and tenured faculty appeared similar to the relationship of the novice nurse practitioner to experienced nurse practitioners, thus allowing for a reasonable connection to the experience found with nurse practitioners.

Reference lists and citation manager suggestions were also used to identify possible articles for inclusion. Grey literature was reviewed to determine current trends. Two large National Institute of Health-funded programs offered web-based tools, training, white papers, and literature reviews about mentorship programs. Ten studies were retained for the critical appraisal: one systematic meta-analysis, two systematic reviews, one mixed-method, one crosssectional survey, and five quasi-experimental with a post mentor survey (see Appendix A).

## **Critical Appraisal**

Mentoring is about encouraging career growth and job satisfaction and reducing turnover for both the mentee and the mentor (Meier, 2013). Lafleur and White (2010) proposed that novice case managers could benefit from mentorship for guidance through Benner's stages of clinical proficiency and development. They found that case management mentors reported a positive impact on personal satisfaction, professional competency, and organizational contributions.

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The last five years have seen a dramatic increase in evidence of the power and importance of mentoring. The literature supports participation in a formal mentoring program for nurses, nurse practitioners, healthcare leaders, military officers, managers, researchers, and faculty (Gandhi & Johnson, 2016; Jarrell, 2016; Jones, 2017; Gosh & Rio, 2013; Minnick et al., 2014). Further literature states that a robust mentoring relationship supported improved job satisfaction, commitment to the organization, and professional development for both the mentor and mentee (Faraz, 2017; Gandhi & Johnson, 2016; Jarrell, 2016; Jarrell, 2016; Jones, 2017).

### Synthesis

Many of the ten studies appraised used a quasi-experimental approach; most used a postintervention survey of mentors or mentees (see Appendix B). The survey responses and the addition of open-ended questions in a few mixed method studies yielded robust information on the impact of job satisfaction, intent to stay, organizational commitment, competency, and selfefficacy of both the mentor and mentee.

Central themes emerged out of the evidence despite variability across industries, tools to measure competency, and research methods. Those themes included that a mentor has a positive impact on the mentee, the mentee shows evidence of improved competence and self-efficacy, and both have improved job satisfaction and career success (Brook et al. 2019; Zang et al. 2016; Gosh & Rio, 2013). As organizations work towards recruitment, retention, and job satisfaction, a mentorship program can be vital to organizational success (Gosh & Rio, 2013).

The review and critical appraisal of the literature identified the length of time a mentee needs a mentor, length of time needed to train the mentor, ideal characteristics of the mentor, and how to support a good mentor/mentee pair. The evidence also looked at what stage in the hiring process to implement a mentor program, how long mentor programs should be and what type of

training is necessary. Lau, et.al (2016) identified that a 4-hour mentoring session was able to yield similar results to a two-day workshop. The authors utilized the Mentoring Competency Assessment (MCA) as a pre/post survey prior to and following the workshop, and noted participants improved their comfort level with participating in difficult conversations and expanded their understanding of the challenges when working with a mentee.

The Mentoring Competency Assessment (MCA) scale was developed to support mentoring effectiveness among senior university researchers and novice university researchers. Lau et al. (2016) along with Gandhi and Johnson (2016) both identified the scale to be valid and reliable when measuring mentor competency in academia. They encouraged a wider application of the tool to mentor programs across other disciplines. The Misener Nurse Practitioner Job Satisfaction Scale (MNPJSS) was used in the Horner (2017) study looking at the satisfaction of the NP. Horner (2017) found that mentoring impacted the satisfaction and competency level of the experienced NP and the novice NP, the mentor and mentee. The other studies utilized independent open-ended questions to elicit information on the competency of the mentor, the effect mentorship had on the mentor and mentee, and satisfaction with the process.

Gerhart (2012) and Harrington (2011) completed a literature appraisal and found that NPs reported mentorship needs above and beyond their clinical competence. The newly graduated NP wanted support on navigating the culture of the organization, balancing work/life, and overcoming fear and anxiety as they transition to practice. Further evidence did not support the use of mentorship to improve the clinical knowledge of the mentee. Clinical knowledge was shown to be the work of a preceptor or fellowship/residency program (Brook, Aitken, Webb, MacLaren, & Salmon, 2019; Robeano & Taylor, 2019).

#### **Evidence-Based Practice Model**

In 2018, Kotter International, Inc. modified their original change theory by identifying eight accelerators and four change principles (see Appendix C). Kotter's theory states that successful change for a person, organization, or philosophy is based on a clear vision that is communicated to the group repeatedly to reinforce the change. Kotter also identified that members of the organization need to be rewarded throughout the change process, managers need to remove obstacles, and leaders need to validate that the change outcomes are anchored into the organizational culture (Kotter, 2014). With the support of the Arizona State Board of Nursing, all 9,000 actively licensed NPs in the state received an invitation to participate in online mentoring program. The support of the Arizona State Board of Nursing allowed all NPs licensed in the state to participate in the mentor educational session, meeting objective number 2 of Kotter's theory to build a guiding coalition. Arizona NPs are known for their strong support and connection of each other. This project looked at the state of Arizona as a Meta organization that can support NPs across the state, which will in turn support their organization. As NPs participate in the program, they take their knowledge of mentoring into their workplaces, thus helping to enact a strategic vision for NPs in the state. Many NPs know each other across organizations and in the state, networking through professional organizations and supporting the work of AzNA (Arizona Nurses Association) and the Board of Nursing. Kotter also emphasis the need to enlist a volunteer army and create actions to remove barriers. Those who participated in the project can realize a personal accomplishment that in turn encourages acceleration, institutional adoption, and change.

National organizations, for example NLN (National League for Nurses) and AANP (American Academy of Nurses Practitioners), are also starting to work towards common goals by providing national-level resources for healthcare organizations. AANP is utilizing web-based educational sessions to provide resources in in a more efficient way. These organizations have captured the "Big Opportunity" to use technology and their resources to support small and large organizations across the country. This project used that technology to meet the needs of Arizona NPs.

### **Guiding Theory**

Self-efficacy and outcome expectations can be strengthened, and positive outcomes of career goals can be formed (Bandura, 1977). Bandura's Social Cognitive Theory (see Appendix D) serves as the conceptual framework for this project and emphasizes the social origin of behaviors in addition to the cognitive thought processes that influence human behaviors and functioning. Bandura's theory holds that behavior occurs as a result of the interplay between cognitive and environmental factors. Social Cognitive Theory combines self-efficacy and outcome expectations through self-observation, self-regulation, self-efficacy and reciprocal determinism (Bandura, 2001; Gandhi & Johnson, 2016; Jnah & Robinson, 2015). Scholars also believe that behavior is learned from the environment through the process of observational learning, self-efficacy and outcome expectations can be strengthened, and positive outcomes of career goals can be formed (Bandura, 2001; Gandhi & Johnson, 2016; Hayes, 1998; Jacobson & Sherrod, 2012; Jnah & Robinson, 2015).

The overarching goal of the project was to support and strengthen the mentor's competency and improve the self-efficacy of the senior nurse practitioner, thus increasing satisfaction and commitment to the organization. Assumptions within Bandura's theory include that students are goal driven individuals who learn and adopt new behaviors through observation (Jnah & Robinson, 2015). For NPs to participate in the study, they needed to engage their *personal factors* (Bandura, 1977), identifying a gap in their own knowledge about mentoring and

desiring to develop new behaviors. As the NP moved through the educational program, he/she d engaged their own *behavior* (Bandura, 1977) by identifying their skill level, complexity of the situation, and the duration of their experience within the program. After they completed the learning module, the NPs then determined how to take the newly acquired knowledge into their *environment* (Bandura, 1977) through newly developed roles and relationships.

#### Methods

The pilot study protocol was reviewed by the Arizona State University Institutional Review Board and approved as exempt from full board review (see Appendix E).

Participant selection was based on existing de-identified baseline administrative data from demographics about the Nurse Practitioner workforce in Arizona provided by the Arizona State Board of Nursing (ASBN, 2019). This information was used to identify current actively practicing nurse practitioners, those retired in the past five years, and those within one year of licensure. The information provided a reference point for numbers of active NPs to include in the project. Further inclusion criteria included nurse practitioners who had an active RN and APRN license in Arizona, have worked as an NP for over three years, are over 18 years of age, and speak/write English. Nurse Practitioners were contacted via email through the Arizona Board of Nursing's licensee database. NPs who worked in their role less than three years were omitted from the data.

Once at the website, participants reviewed the consent agreement and, if they chose to continue, proceeded with registration and login to the Mentor site where the pre-survey demographic/MCA was listed along with three recorded video sessions. The three video sessions (Open Communication & Accessibility; Mutual Respect & Trust; Independence & Collaboration) lasted 20-25 minutes each. Downloadable PDFs of the slides were available to the participant.

After completion of the three videos, the participant was invited to join a live 60-minute session to discuss what they learned, share experiences, and set a specific goal for the next 90 days. After completion of the live session, the participant took the post-MCA survey (see Appendix F, educational design flow sheet). If the participants completed the post-evaluation questionnaire, they had the opportunity to receive a CNE certificate in their email for 2.0 CEUs (see Appendix G, CNE evaluation and Appendix H, certification). The continuing nursing education activity was approved by the Continuing Nursing Education Group, an accredited approver by the American Nurses Credentialing Center's Commission on Accreditation. Participants' email addresses were collected to deliver the continuing nurse education certificate. Data was analyzed using SPSS 23.

The demographic survey consisted of eight questions which defined the project sample and ten mentor specific questions (see Appendix I). Participants completed a pre/post survey using a modified Mentor Competency Assessment Scale (MCA) (see Appendix J). The Mentor Competency Assessment Scale (MCA) was originally developed for use in research mentoring programs (Fleming, et al., 2013). The data from the 26-item scale is used to assess skill level of mentors across six competency domains (maintaining effective communication, aligning expectations, assessing understanding, fostering independence, addressing diversity and promoting professional development) (Fleming, et. al, 2013). The scale was modified for this project, with permission of the scale author, by removing items unique to research faculty.

The modified MCA was combined with eight demographic questions and ten initial mentor screening questions to create a thirty-six-question survey (see Appendix I & Appendix J). Participants received an invitation to participate via email from the Arizona State Board of Nursing NP List serve and were directed via a link to the project website. Flyers were sent to Arizona professional nursing organizations and local health systems for distribution (see Appendix K, flyer). No outside funding for the pilot project was received (see Appendix L, budget).

## Results

The pilot educational program was conducted with a total of seven experienced nurse practitioners. Seventeen completed the Mentor Competency Assessment pre-survey and demographics, but only seven completed the three online modules, post MCA and CNE education evaluation questionnaire. Of those seven, only two participants completed the live 60-minute webinar. Due to the small sample size, the planned 60-day follow up questionnaire on the participants experience with using the tools learned in the online modules was not implemented. The majority of the study population were female (71.43%), between the age of 55 and 59 years (42.86%). Years of experience as an RN ranged from 1 year to over 20 years, years of experience as an NP also ranged from 4 years to over 20 years. The remainder of the demographic data can be found in Appendix M.

Over half (57.14%) of the respondents reported they had received mentorship training prior to the pilot project. Only two (28.57%) reported actively participating in a mentoring relationship and all reported actively serving as a preceptor. Participants noted that mentor relationships were mostly formal and within the same organization. The remainder of the demographic and mentor data can be found in Appendix M and N.

No statistically significant relationships were found in total scores between the pre and post survey. However, 43% of the respondents reported that their strategies to improve communication with mentees improved from moderately skilled to extremely skilled. Two clinically significant themes were identified from participant comments on the CNE evaluations:

mentors need to help the mentees set achievable goals and the mentors need to be engaged active listeners.

#### Discussion

This project was a direct result of the desire to improve the senior nurse practitioner's confidence with mentoring using an online asynchronous educational platform. Due to a limited response, additional projects are needed to evaluate the most effective method of delivery to enhance senior NPs' confidence with mentoring. Kotter's (2014) change principles support that multiple methods of learning are necessary for change, so evaluation of educational programs within organizations, continuing education programs, on demand/podcast lectures, etc. should be investigated to help support the growing nurse practitioner workforce and their mentors. Further studies are also needed on the motivation to improve mentorships skills and the benefits/incentives that encourage engagement. The awareness of self and the ability to identify gaps in knowledge will guide individuals to training and participation in educational programs, however, without this insight, individuals may not fully understand their need for training (Horner, 2017).

#### Limitations, Barriers, and Challenges

The project was limited to experienced nurse practitioners in Arizona. This pilot study measured educational effectiveness of an online learning platform at one-point in time and is not generalizable to other learning modalities. Although the recruitment email was sent to over 9,000 nurse practitioners in the state of Arizona, only seventeen responded to the request for participation. Timing and conflicting emails may have contributed to the low response rate. Request for participation was sent near the winter holidays and multiple other emails were sent from the Arizona Board of Nursing in the same time period, potentially creating confusion. Direct communications with NPs through conferences, site visits and connections within organizations may improve the response rate for future initiatives.

Selection bias may have impacted the outcome. The small number of mentors in the study may have differed from those who did not participate.

## **Project Impact and Sustainability**

The Arizona Board of Nursing has requested the three recorded modules be made available to hospitals, medical groups and schools of nursing to improve mentoring knowledge. The Arizona Board of Nursing supports advanced practices nurses in the state through committees, workgroups and advisory opinions. The educational design of this project will be made available to the Board for integration through their Advanced Practice Committees to create a statewide tool that organizations can use to mentor experienced nurse practitioners and modify for other advanced practice nurses. The long-range goal will be to modify the educational program to support all levels of nursing mentorship.

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## Appendix A

Table 1

## *Literature Review Evaluation Table*

Citation	Theory/ Conceptual	Design/ Method	Sample/ Setting N=	Major Variables &	Measurement/ Instrumentation	Data Analysis	Findings/ Results	Level/Quality of Evidence; Decision
	framework	Witthou	n=	Definitions	insti unicitation	(stats	Kesuits	for practice/
	ir unic work		<b>n</b> -	IV-		used)		application to
				DV-		useu)		practice
Gandhi, M. et.al	Social Cognitive	Design:	N - 67, convenience	IV1: wkshp for	Mentor	* <i>p</i> < .05;	DV1: **	LOE: VI
(2016). Creating	Career Theory	Quasi-	sample	M	Competency	_	Mean 4.7-5.5	
more effective	(adaptation of	Experimental	Pre/post – no control		Assessment	**p < .01;	sig ↑↑	Strengths: use of
mentors:	Social Cognitive		group	<b>DV1</b> : Effective				SCCT, validated
Mentoring the	Theory)	Cross-Sectional		communication	(pre, post 1-2	***p < .00	DV2: **	tool MCA
mentor.		Survey	Demographics:		weeks after	1	Mean 4.6-5.4	
		(pre/post);	f (73%) m (27%)	<b>DV2:</b> Aligning	workshop)		sig↑↑	Weaknesses: data
Country: USA			Disciplines:	expectations		t tests		was taken over 2-
		Purpose:	Medicine (42%);				DV3: *	year period,
Funding:		Mentor training	Nursing (8%);	<b>DV3:</b> Assessing			Mean 4.5-5.1	potential error with
NIMH/NIH		improves	Social Sciences	understanding			sig↑	1 workshop in
		mentor skills,	(21%); other 29%					10/2013 and 2nd in
Bias:		improving		<b>DV4:</b> Fostering			DV4: **	5/2015. Paired t test
Response &		outcomes for	Setting: University	independence			Mean 4.9-5.6	data NS,
Sampling		mentees	CA San Francisco,				sig↑↑	
			2-day M workshop	<b>DV5:</b>				Conclusions: all 6
				Addressing			DV5: ***	components of
			Inclusion: AR @	diversity			Mean 4.7-5.6	mentoring success
			mid and senior				sig $\uparrow \uparrow \uparrow$	were statistically
			level; active role M;	<b>DV6:</b> Promoting				significant
			HIV researchers	development			DV6: **	
							Mean 4.6-5.4	

# Table 1

## Literature Review Evaluation Table

Citation	Theory/ Conceptual framework	Design/ Method	Sample/ Setting N= n= Exclusion: limited	Major Variables & Definitions IV- DV- Time frame: NS	Measurement/ Instrumentation	Data Analysis (stats used)	Findings/ Results	Level/Quality of Evidence; Decision for practice/ application to practice Feasibility:
			participation to keep classes small	Time traine: No			sig↑↑	feasible
Minnick, W, et. al. (2014). Onboarding Occupational Safety & Health Professionals <b>Country:</b> USA <b>Funding:</b> NS <b>Bias:</b> Sampling	Job Embeddedness	Design: QE MM Purpose: examine whether OSU professionals in a mentoring program influence learning curve and intent to stay	<ul> <li>N =306, convenience sample</li> <li>91/306 Mentors</li> <li>65/91 responded to qualitative survey</li> <li>Demographics: m/f- 85%/15% Construction: 44% Manufacturing: 23% Oil/Gas: 33%</li> <li>Setting: ASSE professions from all over USA</li> </ul>	<ul> <li>IV: M Program</li> <li>DV1: LC w/o M</li> <li>LC is defined as the time it takes to perform job skills and tasks and is independent of being M</li> <li>DV2: LC w/M</li> <li>LC length associated w/ being M</li> <li>DV3: ITS w/o M</li> </ul>	<ul> <li>Qualitative:</li> <li>What interactions w/your M were not value added?</li> <li>What interactions w/your M were most effective/helpf ul?</li> <li>Think back to when you first joined the company. What type of M activities</li> </ul>	SPSS; Chi square analysis for quantitative portion; Cramer's V Qualitative: content analysis	<b>DV1 &amp; DV2</b> = NSD .820 (p > .05) <b>DV4</b> = sig 33.8 $(p < .05)\uparrow$ ES .372, medium <b>DV3</b> =77% stated negative impact on ITS w/o M Qualitative: 1. Regardless of	LOE: VI Strengths: Demographics generalizable to workers in construction / manufacturing / oil/gas; ability to replicate qualitative portion of study to any industry Weaknesses: study was recall based; Missing data to replicate questioner; missing data on literature review; refences were
			over USA	<b>DV3:</b> ITS w/o M <b>DV4</b> : ITS w/M	What type of M activities		1. Regardless of interaction,	

## Table 1

#### Literature Review Evaluation Table

Citation	Theory/ Conceptual framework	Design/ Method	Sample/ Setting N= n=	Major Variables & Definitions IV- DV-	Measurement/ Instrumentation	Data Analysis (stats used)	Findings/ Results	Level/Quality of Evidence; Decision for practice/ application to practice
			Inclusion: employed as OSH, member of ASSE Exclusion: Retired; contractor; consultant; trainer		would have been most helpful?		<ul> <li>anything is valuable</li> <li>2. 30% stated cultural navigation most important. 13% coaching/ad vice.12% support developing partnership s</li> <li>3. Person who where not M. 46% wanted help w/cultural</li> </ul>	Conclusions: any form/interaction of M valuable for retention; not helpful with LC; Cultural navigation of organization was greatest value add for being M; second was coaching / advice/ performance expectations Feasibility: use of large database of ASSE members and online format was +, tools used were appropriate, able to
							navigation. 14% support	replicate

# Table 1

## Literature Review Evaluation Table

Citation	Theory/ Conceptual framework	Design/ Method	Sample/ Setting N= n=	Major Variables & Definitions IV- DV-	Measurement/ Instrumentation	Data Analysis (stats used)	Findings/ Results	Level/Quality of Evidence; Decision for practice/ application to practice
							with job shadowing	
Horner, D. (2017). Mentoring: Positively influencing job satisfaction and retention of new hire nurse practitioners <b>Country:</b> USA <b>Funding:</b> NS <b>Bias:</b> selection bias & response	Watson Caring Model (1988)	Design: Cross- sectional survey; QE; Convenience sample Purpose: Does M↑ influence NP JS?	N=69; n=37 Demographics: f/100% Setting: regional primary care clinics and hospitals Inclusion: C NP; English Speaking Exclusion: PA, other APPs, non- English speaking	IV1- M Program DV1-JS Job satisfaction DV2-MIC Improved competency of mentor Variables: Years in practice Years as RN NP Specialty Experience One-time post survey	MNPJSS (2001); Cronhach's α 0.96; 0.79-0.94 subscales Mentorship Quality (nonstandard – not tested); Questions – *Did you find M beneficial *Did this relationship positively influence your JS?	SPSS, One- Way ANOVA; Cross Tabulation	DV1 - ↑JS 4.4 vs. 4.39, sig DV2 - MIC - 91.89% ↑, sig M valuable - 100% M themes - *constructive feedback; *shared knowledge; *available; *encouraging	LOE: VI Strengths: 2/3 of participants on job >3 years; reliable instruments; solid methodology Weaknesses: perception, recall based; not generalizable to PA or other APPs; small regional study Conclusions: Any form or length of M perceived as valuable

## Table 1

#### Literature Review Evaluation Table

Citation	Theory/ Conceptual framework	Design/ Method	Sample/ Setting N= n=	Major Variables & Definitions IV- DV-	Measurement/ Instrumentation	Data Analysis (stats used)	Findings/ Results	Level/Quality of Evidence; Decision for practice/ application to practice
								Feasibility: feasible
Eller, et al. (2014). Key Components of an effective mentoring relationship: a qualitative study	Psychometric theory	Design: Qualitative Study Purpose: identify key components of	N=694 n=451 <b>Demographics:</b> MW - midwives in Japan. f=100%; age 20-30 59.2%; clinical	IV = Mentor Competency DV1 = Competency as professional DV2=competenc	MCCM - Researchers created questionnaire from literature-based evidence, 142 item questionnaires	SPSS descriptive statistics exploratory factor analysis	Final Cronbach's $\alpha = 0.994$ ; DV1 = sig $\uparrow$ 0.773 DV2 = sig $\uparrow$	LOE = VI Strengths: rigor used to develop questions for validity, large N,
Country: USA		effective mentoring in academia	experience 13.4 +/- 9.0 years 23.7% current M	y as an educator DV3=Personal characteristics	were used in pilot study to check validity. After analysis 43 items		0.923 DV3 = sig ↑ 0.863	Weakness: Conclusion:

## Table 1

#### Literature Review Evaluation Table

Citation	Theory/ Conceptual framework	Design/ Method	Sample/ Setting N= n=	Major Variables & Definitions IV- DV-	Measurement/ Instrumentation	Data Analysis (stats used)	Findings/ Results	Level/Quality of Evidence; Decision for practice/ application to practice
<b>Funding:</b> NIH, GMS			Time Frame:2 months		discarded, 99 remained for final		9 sub-factors,	Feasibility: feasible, would be
<b>Bias:</b> selection bias, response, diversity			Inclusion: MW who has been mentoring more than 1 year & new MW Exclusion: - non- midwife		MCCM questionnaire. After pilot of MCCM, analyzed 77. 19 more questions removed to improve Cronbach α leaving <b>41 questions to</b> <b>assess MCCM</b> (Mentoring Competency of Clinical Midwives)		all significant (0.670-0.891) Factor contribution for each concept was 39.0-42.7% 9 Sub-factors 44.0 – 81.2%	good to replicate using tool to determine generalizability
Replace with Faraz	Kram's mentor role theory &	Design: QE	N=472;	IV = M	M Quantity - 1? "#M"; M Quality -	SPSS	DV1, DV2, DV3 – NSD	LOE: VI
Country: USA Funding: None	Interpersonal relationship theory	<b>Purpose:</b> to determine the role of mentorship	University faculty White 85.5%; m/ 55.6%; 10.6 yos;	DV1 = JS, job satisfaction	3 item Allen & Eby's 5 item mentorship quality; M Satisfaction - 3	VIF <10 / Tolerance >.10 - initial	difference w/ # of mentors	<b>Strengths:</b> solid N; reliable instruments; solid methodology; potentially

## Table 1

#### Literature Review Evaluation Table

Citation	Theory/ Conceptual framework	Design/ Method	Sample/ Setting N= n=	Major Variables & Definitions IV- DV-	Measurement/ Instrumentation	Data Analysis (stats used)	Findings/ Results	Level/Quality of Evidence; Decision for practice/ application to practice
Bias: selection bias & response		quantity, quality and satisfaction related to job satisfaction, commitment and intent to stay.	60% reporting having a M - (Quality/Satisfaction was tested on this group n=284)	DV2 = C, commitment DV3=T, intent to stay	item scale/4? Ragines et al. satisfaction with M; JS - 2 questions; Affective Commitment - Allen & Meyer's 8 item affective commitment scale; Turnover - 3?s	Analysis - common method bias not seen; CI 95%, bootstrap bias 0	DV1, DV2, DV3 - sig $\uparrow$ with mentor's knowledge DV1 - sig $\uparrow$ w/M .24 DV2 - sig $\uparrow$ w/M .11 DV3 - sig $\uparrow$ w/M21;	generalizable to PA and APP Weaknesses: regional study Conclusions: Satisfaction with mentoring was more meaningful then quantity or quality of mentoring; Feasibility: feasible
Lau, C. et al. (2016). Developing mentoring competency: Does a one session training workshop have impact?	Not stated can be generalizable to competency-based learning; continuing education	Design: QE - Mixed study / Post-test Purpose: To determine if a 1/2-day mentoring course would	N=43 n=36 (84%); <b>Demographics:</b> M 69%/mentee 31%; MD 28%, RN 8%; Psychologist 36%; other 28%;	IV-Mentoring Competency DV1 = M competency after 1 wkshp	Mentoring Competency Assessment (MCA); Mentorship Knowledge Test (MKT); Program	SPSS; two- way ANOVA, t test; qualitative - unique identifiers; p≤0.05	DV1= mean 4.48 vs 5.02 pre/post; $F(1,31)=18.4 \uparrow$ DV2 = t(27)=0.512, $p=0.613 \downarrow$	LOE: VI Strengths: reliable instruments; solid methodology; potentially generalizable to PA and APP mentors.

## Table 1

#### Literature Review Evaluation Table

Citation	Theory/ Conceptual framework	Design/ Method	Sample/ Setting N= n=	Major Variables & Definitions IV- DV-	Measurement/ Instrumentation	Data Analysis (stats used)	Findings/ Results	Level/Quality of Evidence; Decision for practice/ application to practice
Country: Canada		result in improved	Academic Medicine (Faculty, Staff and	DV2 = M knowledge after	Evaluation - pre/post			Weaknesses: regional study,
Funding: None Bias: Self-Report		measure of mentor competency.	(raciny, sum and trainees) Neuroscience department regional hospital/clinic	1 wkshp				limited literature review, lack of control group, small sample size. Conclusions: Mentoring workshop for 1/2 day ↑ mentor/mentee competency post program; ↑ mentor/mentee difficult conversations and working with diversity. MCA can be used as an effective means to measure

## Table 1

#### Literature Review Evaluation Table

Citation	Theory/ Conceptual framework	Design/ Method	Sample/ Setting N= n=	Major Variables & Definitions IV- DV-	Measurement/ Instrumentation	Data Analysis (stats used)	Findings/ Results	Level/Quality of Evidence; Decision for practice/ application to practice
								competency in 1/2- day workshop. Feasibility: feasible, speaks to possible time for future studies and financial impact of mentorship programs
Gisbert-Trejo, N. et al. (2019). Determining effective mentor characteristics in inter- organizational mentoring for managers: An approach based on	Kram's mentor role theory and functions (CF, PF, RM) (1985) & Nonaka Organizational knowledge creation (1994)	<b>Design:</b> Mixed Method (Literature analysis to determine 1° and 2° M Characteristics; Delphi analysis relevance from expert opinion;	N=125 (17.9% rr); <b>Demographics:</b> 51 M, 62 mentee, 12 program coordinators 22 yos, m 50.4%, f 49.6% <b>Setting:</b> 12.8%	IV1 = MC (mentor characteristics) DV1 - Mentor; DV2 - Mentee; DV3 - Program Coordinator – once MC were	LR - 110 articles (11/2016-5/2017) Scopus & Web of Science; Delphi - Snowball sampling of 19 experts, from experienced M, across the region	Delphi, Brown- Forsythe w/Bonferro ni post hoc; EFA (69.48% Variance); Kaiser- Meyer-	29 M characteristics identified with the EFA noting 7 factors; no significance difference between DV1,2,3 for 28 questions;	LOE: VI Strengths: reliable instruments; solid methodology; potentially generalizable to PA and APP mentors. Weaknesses:

# Table 1

## Literature Review Evaluation Table

Citation	Theory/ Conceptual framework	Design/ Method	Sample/ Setting N= n=	Major Variables & Definitions IV- DV-	Measurement/ Instrumentation	Data Analysis (stats used)	Findings/ Results	Level/Quality of Evidence; Decision for practice/ application to practice
practitioners'		factor analysis	12% energy, 12%	were compared		(0.837,	between	of control group,
perspective		to classify M	IT, 12% consults,	to Frequency		sample	mentee/PC	Conclusions:
		characteristics	8% RD, 43.2% other	seen in literature,		adequacy)	regarding	Positive
Country: Spain		in inter-		respondent's			coaching;	advancement on the
		organizational	Inclusion:	response, and			difference found	impact of mentoring
Funding: US		(IO) M.)	participated in	Kram's functions			between	on the transfer of
17/14 University		_	IOMP	(CF, PF and			Intra/Inter	knowledge through
of the Basque		Purpose:		RD).			organizational	mentors. Selection
Country		identify,	Exclusion: no				literature	of M focus on
(UPV/EHU).		classify, and	experience with M				characteristics	experience,
Bias: no random		value the main MC inter	and no desire to be a					relationship skills
sample of experts.		organization	mentee					and motivation.
Brook, J. et al.	NS	Design: SR	N= 11, 656 n=53	IV1 -Time of	PRISMA; JBICA -	percent	IV1:Time:	LOE: 1
(2019).		Design. SK	eligible studies	Mentor program	No meta-analysis,	improveme	DV1: @ 26 wks	
Characteristics of		Method:	eligible studies	Wentor program	narrative summary	nt	$sig \uparrow 9.3\%$	Strengths:
successful		Medline, HPR,	Time: 2001-2017,	IV2 -Type of	of characteristics;	difference	DV1 @ 27-52	Evidence of
interventions to		EMBASE,	repeat search	Mentor	two types of		wks sig $\uparrow 13.3\%$	prereview
reduce turnover		PsychInfo,	4/2018, no new	(preceptor,	analysis - 1.			correlation between
and increase		CINAHL,	yields	mentor,	interventions 2.		DV2 @ 26	reviewers for
retention of early		Cochran.		residency)	components		weeks sig ↑6%	accuracy, use of
career nurses: A							median ↑;	PRISMA and
systematic review								

## Table 1

### Literature Review Evaluation Table

Citation	Theory/ Conceptual framework	Design/ Method	Sample/ Setting N= n=	Major Variables & Definitions IV- DV-	Measurement/ Instrumentation	Data Analysis (stats used)	Findings/ Results	Level/Quality of Evidence; Decision for practice/ application to practice
		Terms:	Demographics:	IV3 –			DV2 @ 27-52	Joanna Briggs
Country: USA		(retain*, retention,	57% new grad RNs, # of RNs Median 90	Characteristics of Mentor			weeks sig ↑ 31%	criteria
Funding: Burdett		attrition, leav*,		(preceptor,				Weakness: no
Trust for Nursing		turnover, quit,	Inclusion: all LOE,	mentor,			IV2: Type	mention of author's
Grant		loyalty) and	PR; English; studies	teaching)			(Preceptorship)	competency to
		(staff,	contain				DV1-9.2% sig	review studies;
Bias: Publication		personnel,	reduce/increase	DV1 = Turnover			↑ , DV2 - no	Many studies
Bias		employee,	attrition, data	DV2 = Retention			effect;	reviewed did not
		workforce) and	w/attrition/retention/				IV2: Type	have quality data to
		nurs*	turnover rates				(Mentorship)	extract, not all
		<b>D</b>	E				$DV1 = 13.7\% \uparrow$	studies did pre/post,
		Purpose: evaluate	<b>Exclusion:</b> articles prior to 2000				DV2 = $17.1\%$ $\uparrow$ ;	and multiple mixed methods without
		successful					(Residency)	rigor. To help with
		interventions to					DV1 = 18.6% ↑	Publication Bias,
		promote					DV2 = 19.5% ↑	reviewed
		retention and						unpublished grey lit.
		reduce turnover					IV3:	
		of early career					Characteristics	Conclusions:
		nurses					(Preceptorship)	Orientation/TTP
							$DV1 = 9.5\% \uparrow$ ,	program lasting 27-
							DV2 = 20.5% ↑;	52 weeks with

Table 1

### Literature Review Evaluation Table

Citation	Theory/ Conceptual framework	Design/ Method	Sample/ Setting N= n=	Major Variables & Definitions IV- DV-	Measurement/ Instrumentation	Data Analysis (stats used)	Findings/ Results	Level/Quality of Evidence; Decision for practice/ application to practice
							(Mentorship) DV1 = 13% ↑ DV2 = 17.1% ↑; (Teaching) DV1 = 11.9% ↑ DV2 = 20% ↑	teaching, preceptor and mentor component. Feasibility: APPs have similar turnover/retention data for new graduate RNs, the evidence of a mentor program and its value to turnover and retention are valid. Recommendation is 27-52 weeks, this will limit feasibility due to cost of orientation/TTP, but possible with mentorship beyond orientation?

# Table 1

## Literature Review Evaluation Table

Citation	Theory/	Design/	Sample/ Setting	Major	Measurement/	Data	Findings/	Level/Quality of
	Conceptual	Method	N=	Variables &	Instrumentation	Analysis	Results	<b>Evidence; Decision</b>
	framework		n=	Definitions		(stats		for practice/
				IV-		used)		application to
				DV-				practice
Zhang, Y. et al.	NS	Design: SR	N= 347 n=9	IV = Mentoring	Joanna Briggs	percent	DV1 -	LOE: 1
(2016). The				Program	Institute (2008)	improveme	Turnover: 44%	
effectiveness and		Method:	Time: no restriction			nt	of studies $\downarrow$ ;	Strengths: use of
implementation of		Cochrane,		DV1= turnover	3 review authors	difference		Joanna Briggs
mentoring		Medline Ovid,	Demographics:				DV2 - Cost	criteria for analysis
program for		Elsevier,	new grad RNs, SS	DV2 = cost	No meta-analysis,		Effectiveness:	
newly graduated		Embase,	19-450	effectiveness	narrative summary		22% of studies	Weakness: no
nurses: A		CINAHL,			of characteristics		saw cost	mention of author's
systematic review.		CBM, CNKI &	Inclusion: all LOE,	DV3= job			savings	competency to
		WanFang.	PR; English &	satisfaction			>\$330,000	review studies;
Country: China			Chinese; studies				annually;	Many studies
		Terms: newly	contain details of	DV4= RN				reviewed did not
Funding:		graduated	mentoring program	Competency			DV3 - Job	have quality data to
Shanghai Nursing		nurse, new					Satisfaction:	extract, not all
Association &		graduate nurse,	Exclusion: literature	DV5= Self-			44% of studies	studies did pre/post,
Shanghai Jiao		new nurse	review, grey	Efficacy/Stress			saw ↑;	and multiple mixed
Tong University		graduate, newly	literature, nsg	Reduction				methods without
		qualified nurse,	interventions that				DV4 - RN	rigor. Did not
Bias: Publication		newly	don't mention				Competence:	review unpublished
Bias		registered	mentoring,				33% of studies	grey lit or articles
		nurse, novice	interventions with				saw ↑;	outside of USA &
		nurse, new	preceptorship and					China. data analysis
		nurse, mentor,	no mentoring.					of articles was not

## Table 1

#### Literature Review Evaluation Table

Citation	Theory/ Conceptual framework	Design/ Method	Sample/ Setting N= n=	Major Variables & Definitions IV- DV-	Measurement/ Instrumentation	Data Analysis (stats used)	Findings/ Results	Level/Quality of Evidence; Decision for practice/ application to practice
		mentoring, mentorship, transition and orientation. Purpose: evaluate mentoring programs					DV5 - 66% saw improvement in stress reduction, confidence, & self-efficacy	completed, restatement of articles, rather than analysis <b>Conclusions:</b> small sample size of articles, however SR showed + outcomes for mentor programs to
								facilitate TTP <b>Feasibility:</b> APPs have similar turnover/retention data for new graduate RNs, the evidence of a mentor program generalizable to TTP for the APP.

# Table 1

## Literature Review Evaluation Table

Citation	Theory/	Design/	Sample/ Setting	Major	Measurement/	Data	Findings/	Level/Quality of
	Conceptual	Method	N=	Variables &	Instrumentation	Analysis	Results	<b>Evidence; Decision</b>
	framework		n=	Definitions		(stats		for practice/
				IV-		used)		application to
				DV-				practice
Ghosh, R. et al.	Z's mentor role	Design: SR	N= 18 eligible	IV1=career	Hunter &	correlation	IV1 - DV1 ↑	LOE: 1
(2013). Career	theory and	with MA	studies	outcome &	Schmidt's 2004	coefficient	Mwr = .123;	
benefits	functions (CF, PF,			mentors vs. non-	"bare-bones" meta-	= effect		Strengths:
associated with	RM) (1985)	Method:	Time: 2000-2012	mentors;	analysis method	size (Mwr);	$DV2 \uparrow Mwr$	Evidence of
mentoring for		PsychINFO,				CI=95%; Q	= .12;	prereview
mentors: A meta-		ABI/INFORM,	Inclusion: sample	IV2= Career		statistic		correlation between
analysis.		ProQuest	size must be	Outcome &		(variability	DV3 - <i>Mwr</i> =	reviewers for
		Dissertations/T	reported & Pearson	career		distribution	035 not	accuracy. MA
Country: USA		heses; reference	correlation or other	mentoring;		of effect	significant CI	method is reliable
		lists; conference	type of statistic			size); file	(09 to .02);	and valid Extensive
Funding: NS		proceedings for	measuring the 3	IV3 = Career		drawer		literature search and
		unpublished;	mentor supports and	Outcome &		analysis	IV2 - DV4 ↑	review with
Bias:		and expert	measure of effect	Psychosocial		(Hunter &	Mwr = .269;	comprehensive
		scholars for in-	size	mentoring;		Schmidt,		narrative and
		press works				1990).	$DV5 \uparrow Mwr$	background
			Exclusion:	IV4 = Career		Representi	= .44; DV1	
		Terms: mentor,	composite scores for	Outcome & role		ng a value	Mwr = .149 not	Weakness: no
		mentoring	career and	modeling;		of "Fail-	significant CI	mention of author's
		benefits,	psychosocial			safe k";	(.002 to .30);	competency to
		mentor's	functions together.	IV5 = Career		absolute		review studies; no
		subjective		Outcome &		CV .01	DV2 Mwr	mention of number
		career success,		mentoring			= .145 not	of records identified
		mentor's job		quality				at initial search

## Table 1

### Literature Review Evaluation Table

Citation	Theory/ Conceptual framework	Design/ Method	Sample/ Setting N= n=	Major Variables & Definitions IV- DV-	Measurement/ Instrumentation	Data Analysis (stats used)	Findings/ Results	Level/Quality of Evidence; Decision for practice/ application to practice
		performance,					significant CI	
		mentor's job		DV1=Job			(.002 to.29);	Conclusions:
		satisfaction,		Satisfaction;				Positive association
		mentor's					DV3 $Mwr =$	between mentoring
		organizational		DV2=Organizati			02 not	functions and career
		commitment,		onal			significant CI	success, negative
		and mentor's		Commitment;			(.2016);	evidence for
		objective career						mentoring and
		success.		DV3=Turnover			IV3 – DV1 ↑	turnover
				Intent;			Mwr = .154;	
		Purpose:						Feasibility: MA
		identify what		DV4=Job			$DV2 \uparrow Mwr$	review supports the
		might motivate		Performance;			= .216; DV5 ↑	concept that
		individuals to					Mwr = .177;	mentors have
		engage in		DV5=Career				positive career
		mentoring		Success			DV3 $Mwr =$	outcomes, just as
		relationships as					125 not	mentees and
		mentors.					significant CI	literature can be
							(07 to .32);	used to validate
								further study on
							DV4 Mwr	mentoring programs
							= .133 not	and frameworks.

#### MENTORING NURSE PRACTITIONERS

Table 1

#### Literature Review Evaluation Table

Citation	Theory/ Conceptual framework	Design/ Method	Sample/ Setting N= n=	Major Variables & Definitions IV- DV-	Measurement/ Instrumentation	Data Analysis (stats used)	Findings/ Results	Level/Quality of Evidence; Decision for practice/ application to practice
							significant CI (02 to .22); $IV4 - DV1 \uparrow$ Mwr = .085; $DV2 \uparrow Mwr$ = .249; IV5 - $DV1 \uparrow Mwr$ $= .167; DV5 \uparrow$ Mwr = .233;	
							fail-safe k - low of 4 to high of 65, effect size sufficient. Q statistic >5.991 significant	

Key: **APPs** – Advanced Practice Providers; **AR**-Academic Rank; **ASSE**-American Society of Safety Professionals; **C**-certified; **CI**-confidence interval; **DV**dependent variable; **E**–Experience; **ES**-effect size; **f**-female; **FNP**-Family Nurse Practitioner; **FM**-Formal Mentoring; **freq**-frequency; **IM**-Informal Mentoring; **I**-intervention; **IOMP**-Internal Organizational Mentor Program; **ITS**-Intent to Stay; **IV**-independent variable; **JS**-Job Satisfaction; **LC**-Learning Curve; **LOE**-Level of Evidence; **M**-mentor/mentorship; **m**-male; **MA**-Meta-Analysis; **MC**-Mentoring Characteristics; **MCA** - Mentor Competency Assessment; **MCCM**-Mentoring Competency of Clinical Midwives; **MIC**-Mentor Improved Competency; **MM**-mixed method; **MNPJSS**-Misner Nurse Practitioner Job Satisfaction Survey; **MQ**-Mentorship Quality; **MW**-Midwife; *Mwr*-Sample weighted mean; **N**-number of sample size; **n**-number of final participants; **ND**-not defined; **NP**-Nurse Practitioner; **NSD**-not significant; **NS**-Not Stated; **NST**-Nonstandard Tool; **NtI**-National; **OC**-Organizational Commitment; **OSH**-Occupational safety and health; *p*-Power; **PA**- Physician Assistant; **QE**-quasi-experimental; **QMRS**-Quality of Mentoring Relationship Scale; **RN**-Registered Nurse; **SCCT**-Social Cognitive Career Theory; **sig**-significant; **Sp**-Specialty; **SR**-systematic review; **SS**-sample size; **UK**-unknown; **USA**-United States of America; **w**/-with; **w**/owithout; **wkshp**-workshop; **wks**-weeks

## Appendix B

Table 2 Synthesis Table

	Studies	Gandhi, M. et al.	Minnick, W. et al.	Horner, D.	Hishinuma, Y. et al.	Xu, X. et al.	Lau, C. et al.	Gisbert-Trejo, N. et al.	Brook, J. et al.	Zang, Y. et al.	Gosh, R. et al.
	Year	2016	2014	2017	2015	2014	2016	2019	2019	2016	2013
Basics	Location	USA	USA	USA	Japan	USA	Canada	Spain	USA	China	USA
Ba	Design	QE	QE	CSS	QE	QE	QE	MM	SR	SR	MA
	LOE	VI	VI	VI	VI	VI	VI	VI	I	I	I
Ŷ	Healthcare			37	451		36		53	9	
usti	Business							125			
Industry	Educational	67				472					18
Ι	Commercial		306								
	% Female	73%	15%	100%	100%	43%	NS	50%	NS	NS	NS
Demographics	Occupation	100% Faculty	44% Construction 23% Manufacturing	100% NP	100% Midwife	100% Faculty	36% Psychologist 28% MD 8% RN	12% Energy 12% IT 8% RD	100% RN	100% RN	NS
	% Mentor	66%	30%	0%	24%	60%	69%	41%	NS	NS	NS
tion	Mentor			1		1					
.ven	Mentor program	>	1				1				
Intervention	Mentor character				1			>	>	1	1
	Job Satisfaction			$\uparrow$		$\uparrow$				$\uparrow$	$\uparrow$
	Intent to Stay		≠			$\uparrow$			$\uparrow$	$\uparrow$	≠
	Organizational					$\uparrow$					$\uparrow$
	Commitment					•					
nes	Job Performance Career Success										<u>≠</u> ↑
COL	Cost Savings									<b>^</b>	T
Outcomes	<u>v</u>		$\uparrow$	$\uparrow$	$\uparrow$		$\uparrow$			$\uparrow$	
	Competency Self-		.1.	.1.	.1.		.1.			.1.	
	Efficacy/Stress Reduction	$\uparrow$			$\uparrow$					$\uparrow$	
	Knowledge						≠	$\uparrow$			
	Retention						+		$\uparrow$		
	Retention										

Appendix C

Figure 1 Kotter's 8-Step Process for Leading Change



Image Source: used with permission Kotter International

#### Appendix D

Figure 2 Bandura Social Cognitive Theory

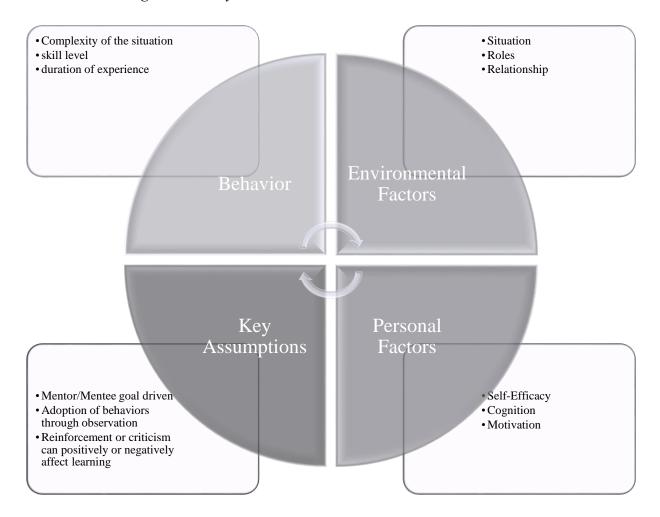


Image Source: adapted from Jnah & Broadus 2015, with permission

#### Appendix E

Figure 3 Arizona State University, Institutional Review Board



EXEMPTION GRANTED

Debra Hagler EDSON: Academic Innovation 602/496-0802 DEBRA HAGLER@asu.edu

Dear Debra Hagler:

On 10/23/2019 the ASU IRB reviewed the following protocol:

Type of Review:	
Title:	
	Initiative
	Debra Hagler
IRB ID:	
Funding:	
Grant Title:	
Grant ID:	
Documents Reviewed:	<ul> <li>MCA_Pre Final.pdf, Category: Measures (Survey</li> </ul>
	questions/Interview questions /interview guides/focus
	group questions);
	<ul> <li>Healy IRB Protocol v2, Category: IRB Protocol;</li> </ul>
	<ul> <li>60-Day Post-Implementation Qualitative Survey</li> </ul>
	Questions_V2.pdf, Category: Measures (Survey
	questions/Interview questions /interview guides/focus
	group questions);
	<ul> <li>Mentor Email Communication v4.pdf, Category:</li> </ul>
	Recruitment Materials;
	Learning Module Outline.pdf, Category: Technical
	materials/diagrams;
	Mentor Project References.pdf, Category: Resource
	list;
	Mentor Certificate of Completion Final.pdf,
	Category: Other (to reflect anything not captured
	above);
	• Mentor Project Consent V8.pdf, Category: Consent
	Form;
	<ul> <li>Mentor Demographics Final.pdf, Category:</li> </ul>
	Measures (Survey questions/Interview questions
	/interview guides/focus group questions);
	Mentor CNE Evaluation Form Final.pdf, Category:
	Measures (Survey questions/Interview questions
	/interview guides/focus group questions);
	AzBON Letter of Support .pdf, Category: Off-site
	authorizations (school permission, other IRB
	approvals, Tribal permission etc);
	<ul> <li>Mentor Participation Flyer Final.pdf, Category:</li> </ul>
	Recruitment Materials;
	MCA_Post Final.pdf, Category: Measures (Survey
	questions/Interview questions /interview guides/focus
	group questions);
	Educational Design flow sheet.pdf, Category:
	Technical materials/diagrams;

The IRB determined that the protocol is considered exempt pursuant to Federal Regulations 45CFR46 (1) Educational settings, (2) Tests, surveys, interviews, or observation on 10/23/2019.

In conducting this protocol you are required to follow the requirements listed in the INVESTIGATOR MANUAL (HRP-103).

Sincerely,

IRB Administrator

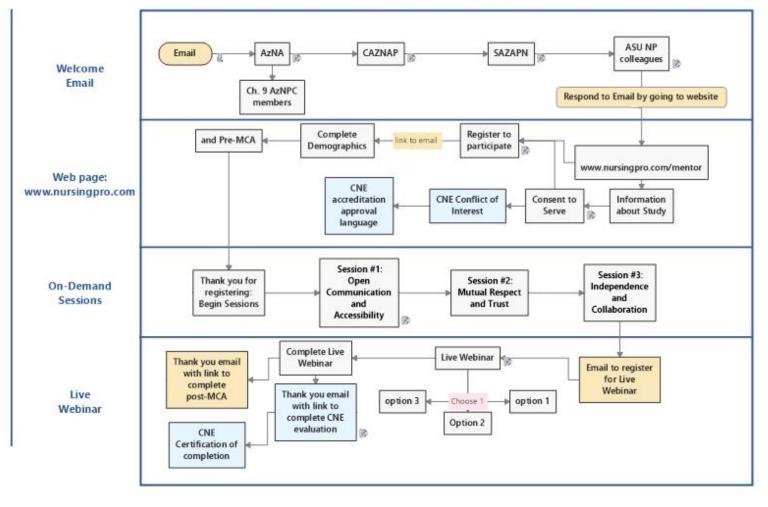
cc:

Heather Healy

Appendix F

Figure 4 Educational Design Flow Sheet





Appendix G

Table 3 CNE Evaluation

#### How to be the MENTOR you wish you had

Arizona State University DNP Project November – December 2019

1. The **learning outcome(s) for this activity was met:** Because of this activity, the learner acquired knowledge about how to improve their mentoring relationships with novice nurse practitioners.

Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree

2. I found this activity worthwhile for my professional practice. (If you select "Disagree" or "Strongly Disagree," please provide a comment below.)

Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
Comments:				

3. This activity will enhance my knowledge and skill as a nurse practitioner. (If you select "Disagree" or "Strongly Disagree," please provide a comment below.)

Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
Comments:				

#### 4. SPEAKER EVALUATION

Speaker Name: He	eather Healy	•	Speaker Topic: Open Communication & Accessibility							
The speaker was kr	The speaker was knowledgeable about the topic:									
Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree						
The speaker provided the information in an interesting manner that facilitated my learning:										
Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree						
Additional comment	ts for this preser	nter:								
Speaker Name: He	eather Healy	Spea	ker Topic: Mutu	al Respect & Trust						
The speaker was kr	nowledgeable at	pout the topic:								
Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree						
The speaker provided the information in an interesting manner that facilitated my learning:										

#### MENTORING NURSE PRACTITIONERS

Strongly Agree	Agree	Neutral		Disagree	Strongly Disagree			
Additional comments	for this presenter	:						
Speaker Name: Heat	her Healy		Speake	r Topic: Indepe	ndence & Collaboration			
The speaker was know	wledgeable abou	t the to	pic:					
Strongly Agree	Agree	Neut	ral	Disagree	Strongly Disagree			
The speaker provided the information in an interesting manner that facilitated my learning:								
Strongly Agree	Agree	Neut	ral Disagree		Strongly Disagree			
Additional comments	for this presenter	:						
Speaker Name: Heat	her Healy		Speake	r Topic: Live Di	scussion Case Study Review			
The speaker was know	wledgeable abou	t the to	pic:					
Strongly Agree	Agree	Neut	ral	Disagree	Strongly Disagree			
The speaker provided	The speaker provided the information in an interesting manner that facilitated my learning:							
Strongly Agree	Agree	Neut	ral	Disagree	Strongly Disagree			
Additional comments	Additional comments for this presenter:							

- 5. As a result of this activity, please share <u>at least one action</u> you will take to change your professional practice/performance.
- 6. Comments:

## Appendix H

Figure 5 CNE Certification of Completion

Student Strategy encodes student Degree strategy encodes titude direction business Certifies that:						
has received <u>2.0</u> contact hours for successfully completing How to be the MENTOR you wish you had!						
Date: <u>January 2020</u> Location: <u>www.nursingpro.com/mentor</u> CNEG Approval #: <u>118-19</u>						
This continuing nursing education activity was approved by the Continuing Nursing Education Group, an accredited approver by the American Nurses Credentialing Center's Commission on Accreditation.						

#### Appendix I

Table 4Demographic and Mentor Questions

#### DEMOGRAPHICS

#### 1. What is your age group?

2 < 30 years</li>
2 30-34 years
2 35-39 years
2 40-44 years
2 45-49 years
2 50-54 years
2 55-59 years
2 60-64 years
2 65+ years

#### 2. What is your gender?

PemaleMale

🛛 Other	
---------	--

#### 3. What is the highest degree you have earned?

Nursing Master's
Non-Nursing Masters
DNP
Nursing PhD
Other Nursing Doctorate
Non-nursing Doctorate

#### 4. What is your Certification Area (if you hold more than one, select all applicable choices)?

2 Acute Care – Adult
2 Acute Care - Pediatrics
2 Adult
2 Adult - Gerontological
2 Family
2 Hospice Palliative Care
2 Neonatal
2 Oncology
2 Pediatric
2 Psych/Mental Health

🛛 Urgen <sup>®</sup>	t Care
🛛 Wome	n's Health
🛛 Other	

#### 5. How many years did you practice as a RN before working as a NP?

I No employment experience as RN prior to becoming an NP

2 1 - 3 years
2 4 - 8 years
2 8 - 12 years
2 13 - 17 years
2 17 - 20 years
2 More than 20 years

#### 6. How long have you worked as a NP?

2 Less than 1 year
2 1 -3 years
2 4 - 8 years
2 8 - 12 years
2 13 - 17 years
2 17 - 20 years
2 More than 20 years

#### 7. Select Your Primary Clinical Focus Area

Primary Care
Internal Medicine
Urgent Care
Cardiology
Psychiatric
OB/GYN
Surgical
Health Promotion
Emergency
Oncology
Other \_\_\_\_\_\_

#### 8. Select Your Primary Work Setting

Pospital Outpatient
Hospital Inpatient
Private Group Practice
Private Physician Practice
Community Health Center
Urgent Care

Private NP Practice
Rural Health Clinic
Federally Qualified Health Center
Emergency Room
Other \_\_\_\_\_

#### **MENTOR QUESTIONS**

**DEFINITION** - For the purposes of this study - a **mentor** is a more experienced person who helps a newer professional with professional identity, role integration, systems navigation, and organizational socialization.

A **preceptor** is typically a fellow employee tasked with showing a new employee policy and procedures and providing some introductions. Preceptors may have an evaluation role. While a preceptor relationship can develop into a mentoring relationship, not all precepting is mentoring.

When responding to the following items, please consider only the professional relationships that did/do NOT have an evaluation or supervisory aspect.

9. In your RN or NP career, have you ever had a mentor (see definition above)?
? Yes
? No

10. In your RN or NP career, have you had previous mentorship training?

? Yes? No

11. In your RN or NP career, have you been a mentor (see definition above)?

? Yes

🤉 No

# 12. What type of mentorship relationship(s) have you experienced? Please select ALL that apply.

Prease select ALL that apply.
 Formal, arranged by someone else

Informal, established by mentor and/or mentee

<sup>1</sup> Within the same organization (mentor & mentee in same organization)

Unique Identifier: (this will be done via survey monkey, to include their email address)

2 External to employer or school (mentor & mentee in different

Organizations)

I have not had any mentoring relationships

#### 13. Are you currently in a mentoring relationship with a novice NP?

🛛 Yes

🤉 No

#### 14. Do you serve as a clinical preceptor for NP students?

? Yes 🛛 No

#### 15. If Yes, how many students per academic year?

2 1 - 2 23-4 25-6 Image: More than 6

#### 16. Do you have teaching experience?

Pres (please describe below) 🛛 No Itext box field)

#### 17. Do you have teaching certifications?

Yes (please describe below) 🛛 No Itext box field)

## 18. Please share a brief description of any prior mentoring experiences that impacted your career development (please describe below)

Itext box field)

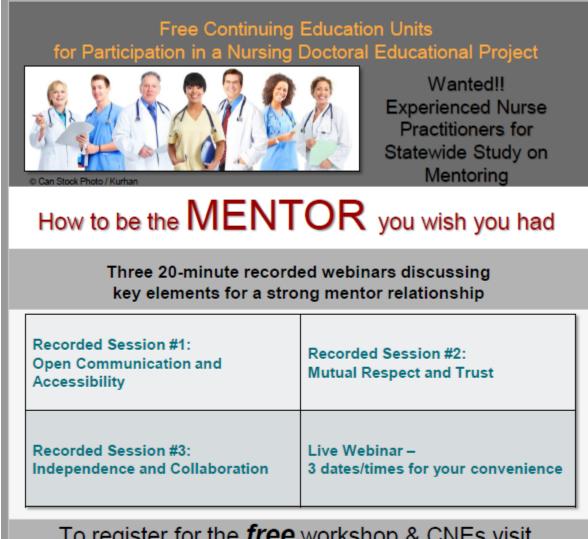
### Appendix J

# Table 5Mentor Competency Assessment, modified from Fleming, et al., 2013Pre/Post Questionnaire

ltems	Not at all skilled 1	2	3	Moderately skilled 4	5	6	Extremely skilled 7	N/A
Active listening	0	0	0	0	0	0	0	0
Providing constructive feedback	О	0	0	O	0	0	0	0
Establishing a relationship based on trust	0	0	o	0	0	o	0	о
Identifying and accommodating different communication styles	О	o	o	О	0	o	O	o
Employing strategies to improve communication with mentees	О	0	o	О	0	o	О	o
Working with mentees to set clear expectations of the mentoring relationship	o	o	o	о	o	o	o	o
Aligning your expectations with your mentees'	О	o	o	О	o	o	0	o
Considering how personal and professional differences may impact expectations	О	o	o	О	0	o	О	o
Helping mentees develop strategies to meet professional goals	О	0	o	О	0	o	o	o
Motivating your mentees	О	О	О	0	О	О	О	О
Building mentees' confidence	0	0	0	O	0	0	o	o
Building mentees' confidence	О	0	o	О	0	o	О	o
Acknowledging your mentees' professional contributions	О	0	•	О	o	•	О	o
Negotiating a path to professional independence with your mentees	о	o	o	•	o	o	0	o
Working effectively with mentees whose personal background is different from your own (age, race, gender, class, region, culture, religion, family composition etc.)	0	0	0	0	0	0	0	o
Helping your mentees network effectively	О	0	0	O	О	0	о	o
Helping your mentees set career goals	0	o	o	0	0	o	0	o

Appendix K

Figure 6 Project Flyer



# To register for the **free** workshop & CNEs visit www.nursingpro.com/register

You will be able to complete the three 20-minute modules on your own time, either all at one sitting or over the course of a few days. A live webinar will be offered to review experiences and case studies with peers. Participation in the survey is voluntary. After the webinar, please complete the CNE evaluation to receive continuing education units.

> For more information contact Heather Healy hmcgilv@asu.edu or mobile 208.949.3267

# Appendix L

Table 6 *Budget* 

Expense Description	Amount	Notes
Website development	\$0.00	Used free development
		application
Website maintenance/hosting	\$119.88	Monthly \$9.99
Survey Monkey	\$384.00	Annual
CNE Application	\$250.00	2.0 CNEs
Participation Email List	\$0.00	In collaboration with AzBON
Total	\$753.88	

## Appendix M

# Table 7Demographics of Sample

Demogra	phics	
Characteristics	Frequency %	Count
Age		
< 30 years	0.00%	0
30-34 years	0.00%	0
35-39 years	28.57%	2
40-44 years	28.57%	2
45-49 years	0.00%	0
50-54 years	0.00%	0
55-59 years	42.86%	3
60-64 years	0.00%	0
65+ years	0.00%	0
Gender		
Female	71.43%	5
Male	28.57%	2
Highest Level of Education		
Nursing Master's	42.86%	3
Non-Nursing Masters	0.00%	0
DNP	42.86%	3
Nursing PhD	0.00%	0
Other Nursing Doctorate	0.00%	0
Non-nursing Doctorate	14.29%	1
NP Specialty		
Acute Care – Adult	28.57%	2
Acute Care - Pediatrics	0.00%	0
Adult	0.00%	0
Adult - Gerontological	0.00%	0
Family	57.14%	4
Hospice Palliative Care	0.00%	0
Neonatal	0.00%	0
Oncology	0.00%	0
Pediatric	14.29%	1
Psych/Mental Health	0.00%	0
Urgent Care	0.00%	0
Women's Health	0.00%	0
Years of Practice as RN		
1 -3 years	28.57%	2

4 - 8 years	14.29%	1
8 - 12 years	28.57%	2
13 - 17 years	14.29%	1
17 - 20 years	0.00%	0
More than 20 years	28.57%	2
Years of Practice as NP		
1 -3 years	0.00%	0
4 - 8 years	28.57%	2
8 - 12 years	28.57%	2
13 - 17 years	14.29%	1
17 - 20 years	0.00%	0
More than 20 years	28.57%	2
Primary Clinical Focus		
Area		
Primary Care	57.14%	4
Internal Medicine	0.00%	0
Urgent Care	14.29%	1
Cardiology	0.00%	0
Psychiatric	0.00%	0
OB/GYN	0.00%	0
Surgical	0.00%	0
Health Promotion	0.00%	0
Emergency	0.00%	0
Oncology	14.29%	1
Other	0.00%	0
Other (please specify)	14.29%	1
Primary Work Setting		
Hospital Outpatient	14.29%	1
Hospital Inpatient	14.29%	1
Private Group Practice	14.29%	1
Private Physician Practice	0.00%	0
Community Health Center	0.00%	0
Urgent Care	14.29%	1
Private NP Practice	0.00%	0
Rural Health Clinic	14.29%	1
Federally Qualified Health Center	0.00%	0
Emergency Room	0.00%	0
Other	0.00%	0
Other (please specify)	28.57%	2
	_0.0770	-

Appendix N

# Table 8Mentor Specific Questions

Mentor Questions		
Characteristics	Frequency %	Count
In your RN or NP career, have you ever had a mentor (se	ee definition above)?	
Yes	100.00%	7
No	0.00%	0
In your RN or NP career, have you had previous mentor	ship training?	
Yes	57.14%	4
No	42.86%	3
In your RN or NP career, have you been a mentor (see d	efinition above)?	
Yes	100.00%	7
No	0.00%	0
What type of mentorship relationship(s) have you expe	rienced? (ALL that app	ly).
Formal, arranged by someone else	71.43%	5
Informal, established by mentor and/or mentee	42.86%	3
Within the same organization (mentor & mentee in same organization)	85.71%	6
External to employer or school (mentor & mentee in different organizations)	57.14%	4
I have not had any mentoring relationships	0.00%	0
Are you currently in a mentoring relationship with a no	vice NP?	
Yes	28.57%	2
No	71.43%	5
Do you serve as a clinical preceptor for NP students?		
Yes	100.00%	7
No	0.00%	0
If Yes, how many students per academic year?		
1 - 2	85.71%	6
3 - 4	14.29%	1
5-6	0.00%	0
More than 6	0.00%	0
Do you have teaching experience?		
Yes	71.43%	5
No	28.57%	2
Do you have teaching certifications?		1
Yes	14.29%	1
No	85.71%	6

Appendix O

# Table 9CNE Evaluation Results

	Nursing CNE Evaluation						
Learner acc nurse pract	-	wledge abo	ut how to i	mprove the	eir mentorir	ng relationships with novic	e
Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree	Total	Weighted Average	
5	1	0	0	0	6		4.83
Found this a	activity wo	rthwhile fo	r my profe	ssional prac	ctice.		
Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree	Total	Weighted Average	
4	2	0	0	0	6		4.67
This activity	y will enhai	nce my kno	wledge and	d skill as a n	urse practit	tioner.	
Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree	Total	Weighted Average	
3	3	0	0	0	6		4.5
Heather He	aly was kn	owledgeab	le about th	e topic: Mu	itual Respe	ct & Trust	
Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree	Total	Weighted Average	
5	1	0	0	0	6		4.83
Heather He	aly was kn	owledgeab	le about th	e topic: Op	en Commu	nication & Accessibility	
Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree	Total	Weighted Average	
5	1	0	0	0	6		4.83
Heather He	aly was kn	owledgeab	le about th	e topic: Ind	lependence	& Collaboration	
Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree	Total	Weighted Average	
5	1	0	0	0	6		4.83
Heather He	aly was kn	owledgeab	le about th	e topic: Liv	e Discussio	n Case Study Review	
Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree	Total	Weighted Average	
5	1	0	0	0	6		4.83
Heather He	aly provide	ed the infor	mation in a	an interestir	ng manner t	that facilitated my learning	g
Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree	Total	Weighted Average	
4	2	0	0	0	6		4.67
As a result of professiona				ast one act	ion you wil	I take to change your	
Increase in	patience a	nd listening	g when mer	ntoring othe	ers.		
Setting mor							
_						ning in future.	
Perhaps loc	ok for a me	entor for m	yself asking	, objectively	where do	I need to grow. Leadershi	р
I will strive	to be a mo	ore active li	stener.				
mentoring Great tips a	-						