

Nurses' Burnout, Post-Traumatic Stress, and Stress Biomarker Telomere Length: Implications for Nurse Leaders

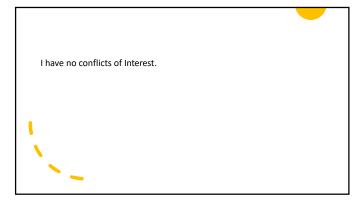
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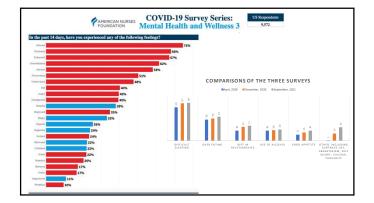
Learning Objectives

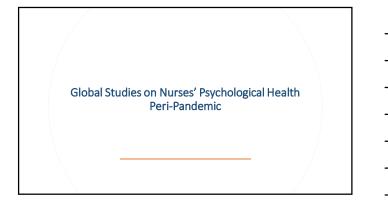
1. Recent studies on nurse burnout, stress, and post-traumatic stress.

2. Strategies to promote nurses' well-being.









BAGN Nursing in Critical Care

Mental distress and influencing factors in nurses caring for patients with COVID-19

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I SECTIONS

Abstract

Background

Nurses are experiencing tremendous stress during the new coronavirus disease 2019 (COVID-19) pandemic, especially intensive care nurses. The pandemic of the disease is a tragedy, which may level a catastrobic psychological imprirot no nurses. Understanding nurses' mental distress can help when implementing interventions to mitigate psychological liquines to nurses. Aims and objectives

To quantify the severity of nurses' post-traumatic stress disorder (PTSD) symptoms and stress and explore the influencing factors of their psychological health when caring for patients with COVID-19. Design

N=90, PTSD Checklist-Civilian, Perceived Stress Scale Methods

Methous Methous 18 Mark 2020, to 90 neurol and the Perceived Stress Scale were administered from 11 to 18 Mark 2020, to 90 neurol subscelet from another city to go and help an intensive care unit (ICU) is Munk, Chrisk These mures were selected because of their high levels of clinical performance and resilience status. Results

Results Noncel arrange TDD score was 24.0.2 + 0.00, and fire (5.4%) of the nurse reported a chically applicate load of 2750 approach, 32 particle, Nurse's previous di tress and PSD approach was previous and the previous application of the score included was and pSD approach was reposited by CA.01, MayA tress sources included withing is an isolated incomment, concrete and previous previous and the sequences shortige and adapt physical and emotional exhibition, internet workload, fear of being interduct and score physical incomposite exhibition (2001). Conclusions

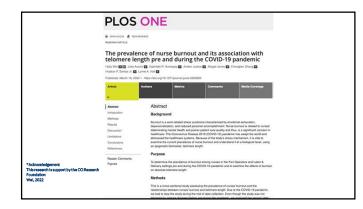
Inclusions s study showed that <u>even relatively highly restlent numer</u> experienced some degree mental distress, including PTSD symptoms and perceived stress. Our findings highlight importance of helping nurses cultivate resilience and reduce stress. Relevance to clinical practice

Recommendations for practice include providing adequate training and orientation before a saxipm munits to KU to help, offering disaster-emergency-preparedness training to keep nurses prepared, providing caring and adhentic nursig leadership offering enging psychological upport to frontime nurse.

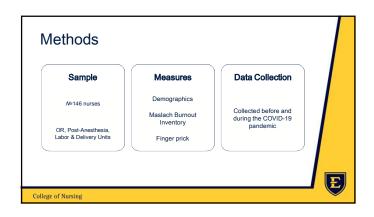


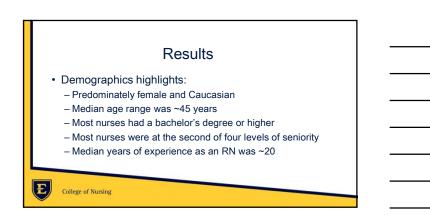
Current State and Influencing Factors of Nurse Resilience and Perceived Job-Related Stressors Min Leng, MSN, RN, Hong Xiu, BSN, RN, Peng Yu, MSN, RN, Juan Feng, MSN, RN, Yuling Wei, MSN, RN, Yanuan Cui, BSN, RN, Mingming Zhang, BSN, RN, Yun Zhou, BSN, RN, and Holly Wei, PhD, RN, CPN, NEX-BC Published Online: February 16, 2020 + https://doi.org/10.3928/00220124-20200216-08 + Cited by: 7 PDF 📄 View Full Text ♣ Tools < Share</p> N=2,981 nurses, Connor-Davidson Resilience Scale Abstract BACKGROUND: Resilience is a characteristic and skill that nurses can learn. This study examined the current state and influencing factors of nurse resilience and nurse perceived job-related stressors. METHOD: This cross-sectional survey study was conducted at a university-affiliated hospital in China between May and August 2018. The Comon Davidsom Reutlinence Scale was used to measure nurse resilience. RESULTS: A total of 3.91 nurses participated in the study, with an average resilience score of 61.35 + 13.13. Nurse realince was significantly correlated with an average resilience and an effective of 9.0.000 Main job-related stressors included frequent inspections and examinations, heavy workload, mandatory overtime, and low segments.

CONCLUSION: The participants had resilience scores that were lower than in the general public in the United States and China, as well as in nurses in developed countries. This study indicated a need for hospital leaders to find ways to reduce nurse werk-related stress. Building nurse resilience should be an important focus for leaders. [*J Contin Educ* Nirse 2020;5(3):132–137.]



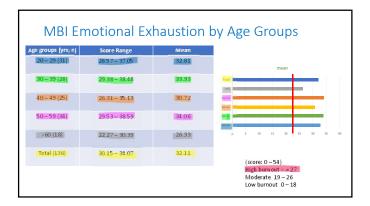




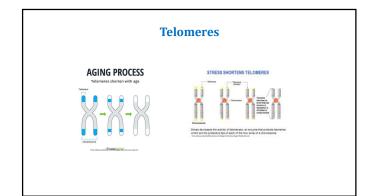


Prevalence of Burnout

MBI Subscales	Burnout Levels	Frequent	Perce
Emotional Exhaustion	High (≥ 27)	95	65.1
(Score: 0 - 54)	Moderate (19-26)	35	24.0
	Low (0 - 18)	16	11.0
Depersonalization	High (≥ 10)	56	38.4
(Score: 0 - 30)	Moderate (6-9)	68	46.6
	Low (0 - 5)	22	15.1
Personal Accomplishment	High (0 - 33)	1	0.7
(Score: 0 - 48)	Moderate (34 - 39)	13	8.9
	Low (≥40)	132	90.4
Total Burnout	Low Burnout	43	29.5
(Total High Burnout refers to the	High Burnout	103	70.5



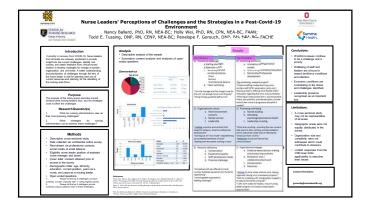




Telomere Lengths Pre and During the Pandemic

Results of Parametric and Non-Parametric Tests of Pre- vs. During Pandemic Telomere Lengths

	Pre - Post				Mann-		
Variable	Difference	1	df*	p	Whitney U	2	p
Telomere Total					12		
Length	253.238	6.086	93.60	<.001	733.5	-5.479	<.00
Telomere Average							
Length	2.752	6.085	93.61	<.001	734.5	-5.473	<.00



Top 3 Stressors

1) Workforce challenges

a.Staffing shortages

b.Retention issues

- c.Psychological and emotional distress
- Stress
- Durant
- Burnout Work/demands balance
- d. Team well-being
- "I am the manager and nurse. I just don't have enough hours to do the job."
- "It's hard to keep nurses."
- "Difficult to hire qualified nursing staff."
- "Nurses are tired."

Top 3 Stressors

2) Organizational culturea) Work environment concernsb) Morale worries

c) Leadership

- "Creating a practice environment that supports resiliency."
- "Finding time for professional development."
 - "Coming out of crisis mode, reestablishing accountability/standards of care."
 - "Working in silos."

Top 3 Stressors

- 3) Resource deficiency a. Compensation
- b. Equipment/supplies
- c. Staff development needs
- d. Financial challenges
- "Competing with pay offered by travel nursing.""Working with outdated
- equipment and lacking funds for replenishing."
- Unmanageable financial expectations and staffing challenges."

Top 3 Strategies

- 1) Improving workforce a. Innovative staffing/practice
 - a. innovative staffing/practice models
 - b.Onboarding/orientation/educati on
 - c. Mentorship/Professional development
- "Using flex scheduling, weekend program."
- "Creative staffing models like hiring more ancillary staff (LPNs, paramedics, techs, etc.)."
- "Education regarding ways of accountability."
- "5-step process: Assume positive intent, ask questions, provide education, provide tools, and move to progressive discipline if needed."

Top 3 Strategies

- 2) Promoting well-being a.Morale building b.Alleviating psychological/emotional health
 - c. Leadership rounding
- "Provide new nurses a safe space to allow them to vent, offer validation, and reduce the verbal trap of offering empty promises."
- "Leadership rounds."
- "Face-to-face communication."

Top 3 Strategies

- 3) Organizational strategies a.Evidence-based decision making and process
 - improvement b.Breakdown
 - silos/collaboration/teamwork c. Compensation
 - d. Resources
- "Utilizing time wisely, staying organized, and saying no to unnecessary projects."
 "Skill mix modeling with
- changing Epic navigators to reduce time at the computer."
- "Robust nursing ladder program and increase compensation opportunities."

E

Implications for Nurse Leaders: Strategies to Prepare Beyond the Pandemic

Vroom's Expectancy Theory

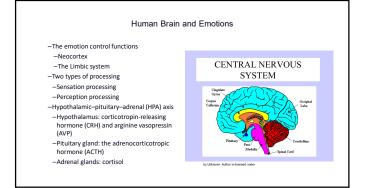
- The assumptions:
- The more an employee values the outcome, the more motivated they are to achieve it.
- Keep promises.Value nurses' work.Recognition.
- The more effort they put in to succeed, the more certain they are to get that satisfying reward.

The Human Mind

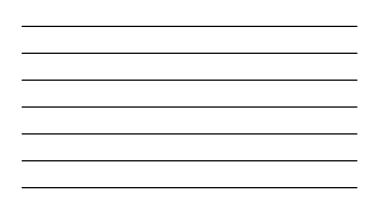
The human mind is like a fertile ground where seeds are continually being planted. The seeds are opinions, ideas, and concepts. You plant a seed, a thought, and it grows.

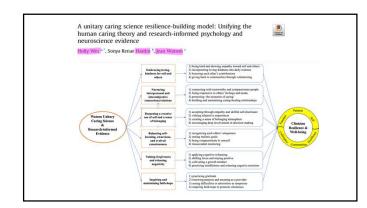
New Age author and spiritualist Don Mig

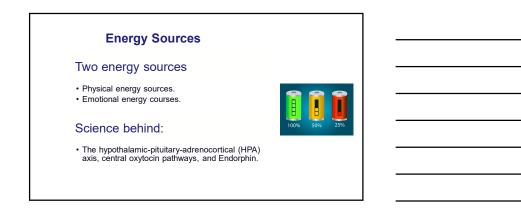














Emotional Hygiene

Emotional Regulation

- Emotional Regulation
 'down-regulation"
 Deep Breathing
 Exchange positions
 Focus on reasons to fed calm
 Disclose difficult feelings
 Expressive writing
 Mindluness practice
 Yoga and Meditation
 "up-regulation
 Service to others
 Develop inner power

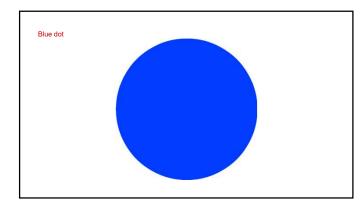




Refocusing and Refining Purpose

- Cognitive reappraisalShift focus
- Limiting news consumption
- Letting go perfectionism
- Being compassionate with ourselves
- Finding meaning in what we do
- New opportunities



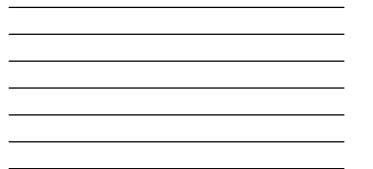


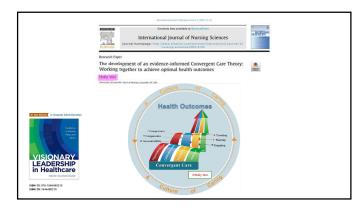
Germinating Positivity

- Cultivate optimism
- Optimistic ABCDE
- Appreciating life
- ${\bf B} eginning \ our \ day \ with \ gratitude$
- Cultivating a growth mindset
- Developing positive habits
- Encouraging constructive language



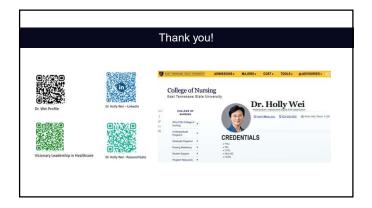












References

Wei, H., & Horton-Deutsch, S. (2022). Visionary Leadership in Healthcare: Excelence in Practice, Policy, and Ethics. Signa Theta Tau International. Wei, H. (2022). The development of an evidence-informed Convergent Care Theory. Working together to achieve optimal health oxformer. International, Wei, H. (2022). The development of an evidence-informed Convergent Care Theory. Working together to achieve optimal health oxformer. International, Wei, H. (2022). The Vioritage G. R., Justice, A., Jones, A., Tango, C., Samos, H. P., A Hal, L. (2022). The prevalence of nurse burnout and ta association with telomere height pre and during the COVID-19 pandemice. *PoS One*, 77(3), 46263803. https://doi.org/10.1371/journal.pone.0263803 wei, H., Hardin, S. R. & Watson, J. (2021). Nutrievy carells calence realisting-building model: Unlinght the human caring theory and research-informed psychology and neuroscience elivence. *International Journal of Nutring Sciences*, 8(1), 151-153.

Ymm, H., Yiney, L. (2020). In its power to service An Linkow mode to contract using unitarial and unitarial mode of the power ML E, With J. L. 6, Boyd, J. M. (2020). Self-care strategies to combat burnout among pediatric critical care nurses and physicians. Critical Care Nurse, 40(2), 44-53. Weil, H., Cohet, H., W., Ray, J., & Wui, L. (2020). Activate of caring: The sease of healthcare interprofessional collaboration. Journal of Interprofessional Care, 34(3), 324-331. Weil, H., Kohet, A., Jung, Y., Savedi, K.A., & Lake, D. M. (2020). The impact of nurse leadership styles on nurse burnout: A systematic literature review. Nurse Leader, 16(5), 439. Segnidox, L., 8, Weil, H. (2020), Leadership strategies to promote frontline nursing staff engagement. Nursing Management, 51(2), 48-

Bargsted, X., & Wei, H. (2020). Leadenhip strategies to promote frontine nursing staff engagement. *Nursing Management*, *51*(2), 48-53.
 Wei, H. & Vratson, J. (2019). Healthcare interprofessionalities and members' perspectives on human carring. A directed content analysis study. *International Journal of Nursing Sontess*, (1), 17-27, N. (2019). Theread and healthcare professionality proceedings of the quality of care: A PITSTOP model of care. A PITSTOP model of care

Acknowledgement

- · CCI Research Foundation
- · Many who have participated and involved in the studies and processes.