An Exploration of Resiliency in a Rural, Magnet Designated Hospital

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Introduction to the Facility

- Schneck Medical Center is a Not-for-profit, Acute Care Hospital located in Seymour, Indiana.
 4-time Magnet® Designated (2006, 2011, 2016, 2021)
- ▶ 2020 Top 20 Rural Hospitals in America
- 5-Star CMS Quality Rating

Introduction to the Facility

- Facility Main campus with several outlying physician practices Jackson, Jennings, Washington, and Scott Counties
 Number of Licensed Beds 166

- Number of Licensed Beds 166
 Number of Staffed Beds 93
 Number of Outpatient visits each year 213,000
 Number of Surgical Cases Each Year 9,500
 Average Daily Inpatient Census 28
 Number of employees 1,000+
 Number of Licensed Nursing Staff

- RN's 265
 LPN's 13



Schneck Medical Center

Problem

- Multiple challenges in the US to maintain an adequate supply of nurses

- Limited enrollments in nursing programs due to faculty shortage
 Nurses leaving the profession due to high stress levels and staffing shortages (AACN, 2020)

Problem

- ► A crucial factor leading to nurses leaving the profession is resiliency
 - A global concept that can be defined as the ability to respond to stressful situations and challenges in a way that results in effective functioning and the protection of physical and mental health (Dossett, Needles, Nittoli, & Mehta, 2021).
 - As a nursing specific concept, resiliency can be defined as a dynamic process that develops over time and allows nurses to perform nursing duties despite adversity (Ang, Uthaman, Ayre, Lim, & Lopez, 2019).

Purpose and Aim

- Purpose: To examine the current state of resilience, mental health, and physical health of nurses at a rural-community, Magnet Designated acute care hospital
- Aim: To identify specific opportunities to intervene and address areas of resilience that may be impacting nurses' overall health and potentially contributing to their leaving the workforce.

Research Questions

- What degree of resiliency is present in the registered nurse workforce in the Magnet Designated hospital participating in the study?
- what is the perceived mental and physical new registered nurses working in the hospital?

Methods

- Institutional Review Board approval was obtained prior to proceeding with the study
- A convenience sample of 279 Registered Nurses employed by a single Magnet designated hospital was invited to participate in an online survey
- Each nurse received a URL to a Qualitrics survey that also included information concerning the purpose of the study, risks and benefits, and that participation was voluntary.
- Participants were asked to complete the entire survey at one time

Methods

- Participants completed a demographic questionnaire that j age, race, gender, level of education, and specific question their work environment
- Resiliency was measured by the Connor Davidson Resilience Scale (CD-RISC)
 - (LD-RISC)
 2 Stiems, and each item has 4-point Likert-type response options ranging from 0=not true at all to 4=true nearly all the time.
 Degree of resilience was reflected by the sum score of the 25 items, with higher scores reflecting greater realience
 Internal consistency estimated using Cronbach's a was 89. Details on its reliability and validity have been documented in previous studies (Conner & Davidson, 2003; Medler et al., 2016).

Methods

- Self-perceived health status was assessed using the PROMIS Global Health short form v1.1 (PROMIS v1.1). (Rothrock et al., 2010)
 a 10-item publicly available instrument that measures both Global Physical Health and Global Mental Health components
 Global Physical Health and Global Mental Health scores are generated by summing responses to two groups of corresponding items, respectively.
- Higher scores represent a better perceived-health status in Global Physical or Mental Health domain
- Internal consistency reliability coefficients of .81 and .86 for Global Physical Health and Global Mental Health measurements, respectively (Hayes et al., 2009)

Analysis

- Results were compared to the US general population mean scores for resiliency and physical and mental health.

	n	%	
Age Group			
<= 25 years old	6	7.89	
26-35 years old	18'	23.68	
36-45 years old	19	25	
46-55 years old	13	17.11	
Older than 55	20	26.32	
Gender			
Female	75	94.94	
Male	5	5.06	
Race/Ethnicity			
Non-Hispanic White	79	100	
Other or Multiple Race	0	0	

Results (Highest Nursing Degree)

Highest Nursing Degree			
RN Diploma	0	0	
ADN	7	8.86	_
BSN	57	72.15	
MSN or Higher	14	17.72	
Doctorate	1	1.27	

	n	%	
Worked Hours Per Week			
0-24	9	11.39	
25-36	25	31.65	
37-40	43	54.43	
40+	2	2.53	
PRN	0	0	
Overfime Hours Worked Per Week			
None	32	44.44	
0.5-4	25	34.72	
4.5-8	9	12.5	
More than 8	6	8.33	
PRN, Salaried or Varied	0	0	
Work Shift			
Days	64	81.01	
Evenings	1	1.27	
Nights	13	16.46	
Rotates between days, nights, or evenings	1	1.27	



	0	
Experience in Current Department		
Up to 2 years	18	23.08
2-5 years	18	23.08
5-10 years	14	17.95
10+ years	28	35.9
Most Time Involved in		
Direct Pallent/Population Care	61	77.22
Administration/Management	15	18.99
Education/Professional Development	3	3.8
Areg of Work		
Acute Care	52	68.42
Ambulatory/primary care	21	27.63
Education	2	2/.63
Days missed work in past 3 months		
None	58	73.42
1 day or shift	11	13.92
2-3 days or shifts	8	10.13
More than 3 days or shifts	2	2.54
Ever Think of Quitting Job		
Never	33	41.77
Sometimes	39	49.37
Usually	6	7.59
Always	1	1.27

Mean Resiliency Scores for the Study Group (U.S. General Population mean score 80.9)*Resiliency score (Mean 82.01, Median 85) * Higher score reflecting greater resilience

llem	n (%)	
Above US general mean	54 (68.35)	
Below US general mean	25 (31.65)	
Quartile D	istribution	
Best quartile (76-100 points)	56 (72.73)	
3 rd quarfile (51-75 points)	20 (25.97)	
2 nd quartile (26-50 points)	1(1.30)	
Worst quartile (0-25 points)	0	



	al Health Resilie	
pulation Mean Score Phys	sical Health=15 Mental Healt	h=15)
		_
ltem	Physical Health	Mental Health
	Mean=15.67, median=16	Mean=14.72,
	n(%)	median=14.5
		n(%)
Above US general mean	46 (58.97)	31 (39.74)
Below US general mean	32 (41.03)	47 (60.26)
	Quartile Distribution	
Best quartile (16-20 points)	46 (58.97)	31 (39.74)
3 rd quartile (11-15 points)	31 (39.74)	41 (52.56)
2 nd guartile (6-10 points)	1 (1.28)	5 (6.41)
Worst quartile (0-5 points)	0	1 (1.28)



Discussion

Findings of this study may be of help to inform organizational policies and practices aimed at improving the resiliency of nurses and retaining the nursing workforce

Important revelations about the demographic characteristics, resiliency, and mental and physical health of nurses in one rural, Magnet designated institution.

- This is an accurate reflection of the overall demographics of the popula represented in the rural area where the organization is located.
- The nurses participating in this study reported higher resiliency scores than the U.S. average population.

Discussion

Further Research

- In light of this, it would be captopriorite to repeat the study to examine resiliency, physical health, and mental health after the pandemic.
 There is a substantial likelihood that these scores may vary from the original study.
- Mental health scores with the present study were below the nation average.
- It will be beneficial to examine these to determine if tailored intervent will be needed to address either.
- It will also be important to repeat this study with a larger population to more thoroughly examine any potential relationships among these variables.

References

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