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Anger Expression Style among Nurses Working in General Hospitals of Karachi, Sindh, Pakistan

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Abstract

Background: Nowadays, the medical environment has become more competitive in terms of fulfilling various desires of client and to deliver improved service. Repetitive and continued stress may lead anger. Anger is defined as a natural emotion that triggers self-protection mechanism in oneself in a stressful condition. Extreme stress or if duration and intensity of anger are uncontrollable then it could have a negative impact on physical health which can further cause difficulties such as inadequate life, interpersonal issues and depression. Objectives: To find out anger expression style among nurses who work in the hospitals of Karachi, Pakistan, and to assess the association between interpersonal problems and levels of anger expression. Methods: This cross-sectional study was conducted at Dow University Hospital and Civil Hospital Karachi from July to August 2017. The data were collected through a structured questionnaire. The questionnaire was based on two parts: the first part was related to demographic form and it was comprised of 10 questions. The second part has two forms, which includes the Stat Trait anger inventory (STAIX) and Korean Inventory of Interpersonal Problems Circumplex Scales (KIIP-SC). Results: Data were gathered from 196 participants working in shifts. More than half of the study participants were young (26 - 35-year-old). To the extent that interpersonal problems were regarded, nurses were negatively associated with state anger and trait anger where positive associations were found with anger control, anger in and anger out. This research exhibited consistent moderate correlation for cold vindictive among anger control, anger in and anger out. This study exhibited that the groups that had the most difficulty with interpersonal problems are the anger-in and out groups. Conclusion: It is concluded that anger expression types trait-anger, stat-anger, anger in, anger control and anger out were not at higher side and showed weaker characteristics of respective subgroups. Similarly, interper-

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sonal problems were also at the lower side and exhibiting lighter characteristics of respective subgroups.

Keywords

Anger, Interpersonal Problem, Anger Expressions

1. Introduction

Currently, the medical environment has become more competitive in terms of fulfilling various needs of the client and to deliver better service. Literature shows that stress level of an individual working in a general office environment is not as much as that of hospital workers [1]. Stress level has been found more prevalent as compared to other professionals in a medical environment because nurses are supposed to provide first hand service to patients and families [2]. Repetitive and continued stress can lead anger. Anger is defined as a natural emotion that triggers self-protection mechanism in oneself in a stressful condition. Extreme stress or if duration and intensity of anger are uncontrollable then it could have a negative impact on physical health [3] [4] which can further cause issues like inadequate life, depression and interpersonal issues [5] [6]. There are two distinct concepts, anger experience, and anger expression. Anger experience means the state of emotion one feels. Furthermore, it is associated with a physiological response. Whereas, anger expression means a behavioral dimension (one method of handling anger). The literature on expression of anger reveals three distinguishable types of anger appearance: anger-in sight, anger-out sight and anger-command [7] [8]. Anger-in means renunciation of thoughts associated with the situation that triggers anger and redirection of anger to self. Anger-out means stating anger to other individuals in several ways, even with physical action, affront and spoken abuse. Anger-control means trying to manage and control anger, and to show anger with due respect of emotions and rights of the other individuals by employing words that are not harsh and aggressive [7].

Few studies revealed that anger expression style was more adequate with respect to age. Individuals had more appropriate anger expression style in older age as compared to younger age [9]. In nurse related studies it was mentioned that style of anger expression was associated with psychological, physical health conditions [10] [11]. It was also found that anger expression style had an impact on the professional environment such as the performance of an organization and satisfaction in the job. There are several research studies that compared relationship among anger appearance style and interactive harms in different groups such as children [12], adults [13] and students [14]. Results revealed that individuals who used anger-control style were found to be with minimum interpersonal problems. Ersoy [15] conducted a research study in 2009 to identify the relationship among social support, the experience of anger and burnout among

emergency nurses. That study revealed that according to burnout subscale score, social support did not differentiate in nurses working in public and private sectors. But it was found that public sectors nurses had more difficulty in expressing anger. Moreover, a study, where surveys of WHO-World Mental Health were analyzed, revealed that in many countries anxiety-mood disorders were more widespread among adult women as compared to men [16]. In another study [17] it was observed that Korean girls showed less positive emotions and exhibited substantially greater trait anger as compared to boys. Literature shows that life stress at times directs to negative emotions such that worry, anxiety, depression, and anger) [18]. Korean nursing students exhibit substantially higher anger as compared to engineering students or natural sciences [19]. In the nursing profession anger is a key emotional issue appearing due to stress [20]. Anger might affect negatively to the quality of care that nursing professionals deliver [20] [21]. Hence, focusing nursing professionals/students with high anger, nursing teaching must provide anger managing training. An earlier study shows that anger managing plans must focus individual approaches of anger expression [19]. For instance, a person who represses his/her anger might seem to calm however, experience delayed emotional recovery. Jun (2016) explored that among Korean students the trait anger greatest powerfully affected anger-out. Such findings together advise that anger levels differ based on the method of expression employed.

In nursing profession, interpersonal problems and anger expression style are linked to each other as straightforward associated with the work performance of a nurse and mental health, consequently affecting the quality of nursing. Regardless of researchers showing that interpersonal relationships trigger anger and the explanation that the anger expression style performs a substantial role in interpersonal issues, there are limited researches that show understanding of anger expression style and its subgroups among nurses, who are responsible for cooperating with patients and their families. There was no previous such study in Pakistan; that motivated us to conduct this study that might explain the understanding of anger expression style in the nursing profession in Pakistan. The objective of this research was to recognize anger expression style among nurses who work in the hospitals of Karachi, Pakistan, and to assess the association between interpersonal problems and levels of anger expression.

2. Methodology

This observational study was accomplished at Civil Hospital and Dow University Hospital Karachi from July to August 2017. Registered nurses working in all shifts were recruited through non-probability consecutive sampling. All student nurses of 1st 2nd and 3rd year were excluded. Sample size calculation was carried on WHO online software Open Epi. With the help of 49.7% nurses having a high score of anger-in, 7% margin of error and confidence interval ad 95% the resultant sample size was 196 nurses.

Data were collected through a structured questionnaire. The questionnaire

was comprised of two parts; the first part was related to demographic. The second part has two forms, Stat Trait anger inventory (STAIX) (see Appendix 1) and Korean Inventory of Interpersonal Problems Circumplex Scales (KIIP-SC) (see Appendix 2) STAIX consisted of 44 questions, a scale based on five sub-domains (Anger In, Anger Out and Anger Control, State Anger and Trait Anger), This tool uses four points Likert scale with 4 signifying strongly agree and 1 signifying strongly disagree. Higher points signify solid features of the related sub-factor. Furthermore, a high sum of the points for the five sub-factors signifies frequent anger expressions regardless of anger expression type. Korean Inventory of Interpersonal Problems Circumplex Scales (KIIP-SC), 32 questions on interpersonal problems having eight subdomains; Cold, Intrusive problem and Socially Avoidant, Vindictive, Nonassertive, Domineering, Exploitable and Overly Nurturing. In this tool, 4 showing strongly agree and 0 means strongly disagree with five points Likert scale. Each sub-factor has the range of 0 to 20 points, with higher scores signifies more difficulties in each interpersonal problem of sub-factors.

Data were entered and analyzed on SPSS 21.0. Descriptive statistics were calculated for the demographic, State-Trait Anger Expression Inventory and Inventory of Interpersonal Problems Circumplex Scales (IIP-SC). Pearson Correlation Coefficients test was used to assess the relationship between (STAXI) and (IIP-SC) among nurses.

3. Results

Table 1 shows properties of nurses participated in this study. More than half a cent of the study participants was young (26 - 35-year-old) and only 5.1% participants were middle aged (>45). There was 53.6% male and 46.4% was female participants. Two-third of nurses were working in government sectors whereas only 32.7% belonged to private sectors. Most of the participants (70.9%) were registered nurse and only 6.1% and 12.8% were a head nurse and assistant head nurse respectively.

Table 2 represents summary statistics of Stat-Trait Anger Expression Inventory among nurses. Mean of sum scores of state-anger was 14.9 with standard deviation of 6.87 a with maximum summed state anger score of 38.0. Similarly means of summed scores of, anger control, trait anger, anger out and anger in sub factors were 18.12 ± 5.22 , 17.64 ± 6.59 , 23.84 ± 6.77 , 14.32 ± 4.19 respectively. These means confirmed that anger expression types trait-anger, stat-anger, anger out, anger control and anger in were not at the higher side.

Table 3 represents summary statistics of for Inventory of interpersonal problems circumplex scales (IIP-SC) items among nurses. Mean of sum scores of domineering was 6.55 with a standard deviation of 2.80 with a maximum summed domineering score of 12.0. Similarly means of summed scores of cold, vindictive, nonassertive, exploitable, overly nurturing, socially avoidant and intrusive confirmed that Inventory of interpersonal problems was not at the higher side.

Table 1. The percentages of qualities of the nurses.

Qualities	N	%
Age (years)		
15 - 25	55	28.1
26 - 35	105	53.6
36 - 45	26	13.3
More than 45	10	5.1
Gender		
Male	105	53.6
Female	91	46.4
Education level		
Matric	57	29.1
Intermediate	72	36.7
Graduate	59	30.1
Post-graduate	8	4.1
Marital status		
Single	96	49.0
Married	96	49.0
Widow	4	2.0
Job status		
Government job	132	67.3
Private job	64	32.7
Designation/ Post		
Head Nurse	12	6.1
Assistant H/N	25	12.8
Registered Nurse	139	70.9
Other	20	10.2
Monthly income in Rupes		
Less than 20,000	33	16.8
21,000 - 40,000	111	56.6
41,000 - 60,000	38	19.4
More than 60,000	14	7.1
Duties perform		
Morning	47	24.0
Evening	40	20.4
Night	21	10.7
Rotation	88	44.9
Work unit		

Continued

Emergency	36	18.4
ICU	58	29.6
General ward	80	40.8
Other	22	11.2
Duration of work		
06 Hours	109	55.6
08 Hours	56	28.6
12 Hours	31	15.8

Table 2. Mean score, SD, range, min values and max values for State-Trait Anger Expression Inventory (STAXI) among nurses.

STAXI	Mean	Std. Deviation Range		Minimum	Maximum
State Anger	14.9031	6.87439	28.00	10.00	38.00
Trait Anger	17.6429	6.59098	29.00	10.00	39.00
Anger Control	18.1224	5.22865	21.00	7.00	28.00
Anger In	14.3265	4.19957	18.00	6.00	24.00
Anger Out	23.8469	6.77908	29.00	11.00	40.00

Table 3. Mean score, SD, range, s and max values for Inventory of Interpersonal Problems Circumplex Scales (IIP-SC) items among nurses.

IIP-SC	Mean	Std. Deviation	Range	Maximum
Domineering	6.5561	2.80328	12.00	12.00
Vindictive	5.7551	3.79355	16.00	16.00
Cold	6.8367	3.87945	14.00	14.00
Socially Avoidant	6.1735	3.31593	15.00	15.00
Nonassertive	6.9490	3.66794	12.00	12.00
Exploitable	7.4286	3.55326	15.00	15.00
Overly Nurturing	8.6531	3.02842	14.00	14.00
Intrusive	7.3571	3.62116	13.00	13.00

Table 4 showed correlation analysis between state-trait anger expression inventory and inventory of interpersonal problems circumplex scale. It was observed that there was statistical significant but moderate correlation of anger control, anger in and anger out with all interpersonal problem circumplex scales. Whereas correlations of state-anger and trait-anger with all interpersonal problem circumplex scales were quite low and most of them were statistically insignificant.

4. Discussion

In this research, we found that nurses had a low level of trait anger, state anger,

Table 4. Correlation coefficients between the State-Trait Anger Expression Inventory (STAXI) and Inventory of Interpersonal Problems Circumplex Scales (IIP-SC) items among nurses.

STAXI	State A	nger	Trait A	nger	Anger (Control	Ange	er In	Ange	r Out
IIP-SC	r	P	r	P	r	P	r	P	r	P
Domineering	0.019	0.791	-0.123	0.086	0.298**	<0.001	0.403**	< 0.001	0.333**	<0.001
Vindictive	-0.145*	0.043	-0.241**	0.001	0.315**	< 0.001	0.478**	< 0.001	0.396**	<0.001
Cold	0.056	0.437	0.092	0.198	0.400**	< 0.001	0.510**	< 0.001	0.582**	<0.001
Socially Avoidant	0.022	0.760	0.050	0.491	0.353**	<0.001	0.439**	<0.001	0.521**	<0.001
Nonassertive	-0.113	0.116	-0.065	0.362	0.209**	0.003	0.342**	< 0.001	0.364**	<0.001
Exploitable	-0.245**	0.001	-0.112	0.118	0.181*	0.011	0.237**	0.001	0.224**	0.002
Overly Nurturing	-0.169*	0.018	-0.194**	0.006	0.235**	0.001	0.446**	<0.001	0.433**	<0.001
Intrusive	0.019	0.791	-0.123	0.086	0.298**	< 0.001	0.403**	< 0.001	0.333**	< 0.001

^{**}Correlation is significant at the 0.01 level (2-tailed); *Correlation is significant at the 0.05 level (2-tailed).

anger in, anger control and anger out. Anger is regarded as one of the fundamental human emotion [22] and as a fundamental psychological phenomenon that performs a vital part in the social and personal life of individuals [23]. Anger has been also associated with adverse outcomes of health and is taken as a substantial predictor for longstanding physical health issues like heart diseases [24]. In addition, high anger has been associated with deterioration of individual's functioning and well-being [25].

We determined the association between interpersonal problems and anger expression types. Our findings exhibited that, to the extent that interpersonal issues were concerned, nurses were negatively associated with state anger and trait anger where positive associations were obtained with anger control, anger in and anger out. This research exhibited consistent moderate correlation for cold vindictive among anger control, anger in and anger out [26].

This study exhibited that the groups that had the maximum difficulty with interpersonal issues are the anger-in and out groups. Emotional suppression may perform as a constraining factor for anger expression [13]. This result is in accord with the results of the study [14] that declared that suppression-type anger showed generally high interpersonal problems, specifically like nonassertive, egocentric, cold and avoidant.

Although consistent with previous studies, anger repression, a style of anger expression, was identified as an important factor that causes interpersonal problems. For instance, according to a study [27] found that while anger repression had a substantial impact on interpersonal problems, anger control did not, in school students of the middle class.

Another research [13] also reported that there were moderate influences of the anger-in type that incite interpersonal problems like nonassertive, overly-nurturing, socially avoidant and self-sacrificing actions among individuals working in office environment. Thus, it is a finding in this study that anger-control is not noticeably correlate among interpersonal issues but anger in is. In this study, anger-in exhibited relatively high correlation in all interpersonal issues than that of control and out. This might be explained as the anger-control type having the tendency to experience lower interpersonal problems. Whereas, anger in more likely to express high interpersonal problems. State anger and trait anger in all interpersonal problems have negative and low correlations this shows that state anger and trait anger having the tendency to experience lower interpersonal problems.

5. Conclusion

From this research, it is concluded that anger expression types trait-anger, stat-anger, anger in, anger control and anger out were not at higher side and showed weaker characteristics of respective subgroups. Similarly, interpersonal problems were also at the lower side and exhibiting lighter characteristics of respective subgroups. There were moderate statistically significant associations of anger control, anger in and anger out with interpersonal problems.

Limitation

This study used convenience sampling for participant selection hence interpretation of the results must be done with caution. Here, for the measurement of anger expression and interpersonal problems only subjective data was used, in the future to augment the results and increase data reliability the objective measurement methods such as observation should be used.

Conflicts of Interest

The authors declare no conflicts of interest regarding the publication of this paper.

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Appendix 1: State-Trait Anger Expression Inventory (STAXI)

1 Strongly Disagree and 4 Strongly Agree.

S no.	STAXI Items	1	2	3	4
1	I am furious				
2	I feel irritated				
3	I feel angry				
4	I feel like yelling at somebody				
5	I feel like breaking thing				
6	I am mad				
7	I feel like banging on the table				
8	I feel like hitting someone				
9	I am burned out				
10	I feel like swearing				
11	I am quick tempered				
12	I have a fiery temper				
13	I am a hotheaded person				
14	I get angry when slowed down				
15	I get annoyed when there is no recognition				
16	I fly off the handle				
17	When I get mad, I say nasty things				
18	I get furious when I am criticized in front of someone				
19	I get frustrated and feel like hitting someone				
20	I am infuriated when I get poor evaluation				
21	I control my behavior				
22	I express my anger				
23	I keep things in?				
24	I am patient with others				
25	I become sullen				
26	I withdraw from people				
27	I make sarcastic remarks about others				
28	I fret?				
29	I do things like slamming doors				
30	Nothing forces me to show anger				
31	I control my temper				
32	I argue with others				
33	I tend to harbor grudges				
34	I pout or sulk				
35	I can stop myself from losing my temper				
36	I do things like slam doors				
37	I feel angrier than I am willing to admit				
38	I am irritated a great deal more				

Continued

39	I say nasty things
40	I have to be tolerant and comprehensive
41	I argue with others
42	I lose my temper
43	If I am annoyed, I am apt to tell how I feel
44	I control my angry feelings

Appendix 2: Inventory of Interpersonal Problems Circumplex Scales (IIP-SC)

Items	Inventory of Interpersonal Problems Circumplex Scales (IIP-SC)	Strongly disagree = 0	Disagree = 1	Neutral = 2	-	Strongly Agree = 4
Domineering	It is hard for me to understand another person's point of view					
	I am too aggressive toward other people					
	I try to control other people too much					
	I argue with other people too much					
Vindictive	It is hard for me to be supportive of another person's goals in life					
	It is hard for me to feel good about another person's happiness					
	I am too suspicious of other people					
	I want to get revenge against people too much					
Cold	It is hard for me to show affection to people					
	It is hard for me to experience a feeling of love for another person					
	It is hard for me to feel close to other people					
	I keep other people at a distance too much					
Socially Avoidant	It is hard for me to join in groups					
	It is hard for me to introduce myself to new people					
	It is hard for me to socialize with other people					
	It is hard for me to ask other people to get together socially with me					
Nonassertive	It is hard for me to tell a person to stop bothering me					
	It is hard for me to confront people with the problems that come up					
	It is hard for me to be assertive with another person					

Continued

It is hard for me to be firm when I need to be It is hard for me to let other people Exploitable know when I am angry It is hard for me to be assertive without worrying about hurting the other person's feeling I am too easily persuaded by other people I let other people take advantage of me too much Overly It is hard for me to attend to my own Nurturing welfare when somebody else is needy I try to please other people too much I put other people's needs before my own too much I am affected by another person's misery too much It is hard for me to keep things private Intrusive from other people I open up to people too much I want to be noticed too much I tell personal things to other people

too much