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A Correlational Study between Cognitive Errors and Anxiety among Adults Studying in Selected University of Gurugram, Haryana with a View to Develop an Informational Pamphlet for its Management and Prevention

Mohini Yadav, Ibanrilin Ranee

(M.Sc. Nursing)

Abstract: A correlational study between cognitive errors and anxiety among adults studying in university of Gurugram Haryana. In this study a quantitative research approach and correlational research design was used with purposive sampling technique, on 100 samples who were attending Starex University Haryana. Tool was consisting of structured questionnaire on Cognitive errors and anxiety further checking the correlation between cognitive errors and anxiety among adults. A pamphlet prepared for giving awareness among adults about cognitive errors and its preventions and management. In adults majority (51%) have severe cognitive errors. Majority of adults (45%) having severe anxiety. And there was strong positive correlation between cognitive errors and anxiety among adults. There was no association between cognitive errors and selected background data variables.

Keywords: Cognitive errors, Adults, Anxiety, Information pamphlet

1. Introduction

Cognitive errors or errors are thoughts that cause individuals to perceive reality inaccurately. We all have pattern of thinking and this may impact our emotional state and behaviour. There are specific (and common) ways people distort their thinking. These irrational thoughts and beliefs (i.e., errors) can lead to problematic emotional states and behaviour, like anxiety, low self-esteem, and depression and relationship conflicts.

2. Review of Literature

- 1) A study were conducted to determine the relationship between cognitive errors and anxiety symptoms in school aged children and to analyze the age group and gender effects on the 4 cognitive errors, out of 205 children aged 8-13yrs the results shows older children have more cognitive errors than younger and female showed higher cognitive errors than male, higher levels of anxiety associated with more cognitive error. [1]
- 2) A study examined the linkage between cognitive errors and anxiety among 251 samples of children and adolescent referred for anxiety problems. Results indicated that the measure of anxiety were significantly related to each of cognitive errors i.e. catastrophizing, overgeneralization, personalization and selective abstraction.^[2]

Objective

- 1) To assess the cognitive errors among adults studying in selected University of Gurugram, Haryana.
- 2) To assess the level of anxiety among adults studying in selected University of Gurugram, Haryana.

- 3) To determine correlation between cognitive errors and anxiety with demographical variable among adults studying in selected University of Gurugram, Haryana.
- 4) To develop & validate an informational pamphlet for management of cognitive errors and anxiety among adults studying in selected University of Gurugram, Haryana.

Delimitation

The study is delimited to:

- The adults (18 to 26years) people coming to Starex University during period of data collection.
- Only for 100 samples in Starex University of Gurugram, Haryana.

3. Methodology

Quantitative research approach and correlational research design was used in this study.

Population: adults (18-26 yrs of age)

Sample: Students studying in Starex University Gurugram,

Haryana

Sample size: 100

Sampling Technique: Non probability purposive sampling

technique

Hypothesis of the Study

H₁: There will be significant correlation between cognitive errors and anxiety among adults studying in selected University of Gurugram, Haryana, at 0.05 Level Of Significance

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	Data Collection Tools and Technique							
S.No	Tool	Purpose	Collection					
1.	Selected background	To assess the background						
	data variables	Structured						
2.	CD-Quest	To assess the cognitive	interview					
	questionnaire errors		schedule					
3.	Hamilton anxiety	To assess the anxiety						
	rating scale							

Reliability

Name of the tools	Method	Reliability
CD-Quest questionnaire	Cron bach's alpha	.88
Hamilton anxiety rating scale	Cron bach's alpha	.73

Content Validity of the Tool

The content validity of the tool was obtained by submitting the tools to seven (7) experts. All experts were agreed with statement except for few suggestions.

Final study

The final study was conducted in the Starex University Gurugram, Haryana. The data was collected form 19/01/2019 to 28/01/2019 by using structured interview schedule.

Table 1: Frequency and Percentage distribution of adults studying in University of Gurugram Haryana according to background data variables, N=100

Section-1 Socio Demographic Proforma		Frequency (f)	Percentage	
		(%) 20%		
A co (in voors)	18-20	20 28		
Age (in years)	21-23	_	28%	
	24-26	52	52%	
Sex	Male	44	44%	
	Female	56	56%	
	Hindu	76	76%	
Religion	Christian	17	17%	
	Muslim	7	7%	
	Others	0	0%	
Education	Graduate	57	57%	
Education	Post Graduate	43	43%	
Living Arrangement	Hosteller	62	62%	
Living Arrangement	Day Scholar	38	38%	
Type of Family	Nuclear Family	74	74%	
Type of Family	Joint Family	26	26%	
	One	0	0%	
N	Two	54	54%	
Number of Siblings	Three	38	38%	
	Above 3	8	8%	
	< 20,000	0	0%	
Family Income per	21000-40,000	22	22%	
Month (Rs)	41000-60,000	47	47%	
` '	> 60,000	31	31%	
	< 12 th	66	66%	
3.6.4 193 2	Graduate	34	34%	
Mothers Education	Post Graduate	0	0%	
	Doctorate	0	0%	
	< 12 th	28	28%	
	Graduate	70	70%	
Fathers Education	Post Graduate	2	2%	
	Doctorate	0	0%	
	Private Employee	6	6%	
	Govt Employee	10	10%	
Mothers Occupation	Health Professional	15	15%	
	Housewife	69	69%	

	Private Employee	26	26%
Eathana Occumation	Govt Employee	47	47%
Fathers Occupation	Health Professional	17	17%
	Businessman	10	10%
	Rural	32	32%
Area of Residence	Urban	68	68%
	Semi Urban	0	0%
Do you have	Yes	0	0%
Knowledge regarding cognitive errors??	No	100	100%
Do you have any	Yes	2	2%
anxiety related problems?	No	98	98%

Table 1 shows that Majority of adults were of age 24-26 years (52%), majority of adults were females (56%), religion wise most of the adults were Hindu (76%), majority of adults were graduates (57%), majority of the adults were living in hostels (62%), half of the adults were day scholar (50%), majority of adults belongs to nuclear family (74%), majority of adults were having 2 siblings (54%) with family income of more than 41-60,000 (47%), majority of the adults mothers were educated upto 12th standard (66%) and fathers educated upto graduates (70%), majority of the mothers of adults were housewife (69%), and fathers were govt employee (47%), majority of adults were residing in urban area (68%), No adults were having any knowledge regarding cognitive errors (0%), majority of adults doesn't have any anxiety disorders (98%).

Table 2: Frequency and percentage score of adults related to cognitive errors

Criteria Measure of Cognitive Errors Score							
Category Score	Frequency	Percentage					
SEVERE (33-60)	51	51.0					
MODERATE (25-32)	35	35.0					
SLIGHTLY (15-24)	10	10.0					
ABSENT/MINIMAL (0-14)	4	4.0					

Table 2: Showing most of the adults (51%) having severe cognitive errors, 35% having moderate, (10%) having slightly and (4%) having minimal cognitive errors.

Table 3: Showing Frequency and percentage distribution of level of anxiety scores among adults studying in University

	CRITERIA MEASURE OF ANXIETY SCORE							
Category Score Percentage Frequency								
	Moderate to Severe (25-30)	45.0	45					
	Mild to Moderate (18-24)	37.0	37					
	Mild Anxiety (0-17)	18.0	18					

Table 3: showing that majority of the adults (45%) were having moderate to severe anxiety, 37% of the adults were having mild to moderate and 18% of the adults were having mild anxiety.

Table 4: Correlation between cognitive errors and anxiety among adults studying in University, N=100

Pearson's Correlation	Cognitive Errors Score	Anxiety Score				
Mean	32.94	21.79				
SD	9.607	6.466				
N	100					
Correlation	0.738					
Table Value	0.197					
P Value	0.000					
Result	Significa	nt				

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Hence it was inferred that there was strong positive correlation between cognitive errors and anxiety among adults.

Table 5: Findings related to Association between cognitive errors score and background data variable, N=100

Demographic Variables		Levels (N=100)			Association with Cognitive Errors Score					
		Absent/				Chi	Р		Table	
Variable	Option	Minimal	Slightly	Moderate	Severe	Test	Value	df	Value	Result
	18-20	0	1	8	11					
Age (in years)	21-23	3	3	12	10	5.547	0.236	4	9.488	Not
rige (in years)	24-26	1	6	15	30	0.0.7	0.200	-	71.00	Significant
	Male	2	4	12	26					Not
Sex	Female	2	6	23	25	1.791	0.408	2	5.991	Significant
	Hindu	4	6	28	38					~-8
	Christian	0	3	7	7					Not
Religion	Muslim	0	1	0	6	1.699	0.791	4	9.488	Significant
	Others	0	0	0	0					~-8
	Graduate	4	5	21	27			_		Not
Education	Post Graduate	0	5	14	24	0.764	0.682	2	5.991	Significant
	Hosteller	4	7	21	30					Not
Living Arrangement	Day Scholar	0	3	14	21	1.388	0.499	2	5.991	Significant
	Nuclear Family	4	8	26	36					Not
Type of Family	Joint Family	0	2	9	15	2.047	0.359	2	5.991	Significant
	One	0	0	0	0					Significant
	Two	1	6	17	30					Not
Number of Siblings	Three	3	3	16	16	2.407 0.661	4	9.488	Significant	
	Above 3	0	1	2	5					Significant
	< 20,000	0	0	0	0					
Family Income per Month	21000-40,000	0	1	9	12					Not
(Rs)	41000-60,000	4	5	14	24	4.351	0.361	4	9.488	Significant
(113)	> 60,000	0	4	12	15					Significant
	< 12 th	3	5	26	32					
	Graduate	1	5	9	19					Not
Mothers Education	Post Graduate	0	0	0	0	0.352 0.839	2	5.991	Significant	
	Doctorate	0	0	0	0					Significant
	< 12 th	0	3	10	15					
	Graduate	4	6	25	35					Not
Fathers Education	Post Graduate	0	1	0	1	1.900	0.754	4 9	9.488	Significant
	Doctorate	0	0	0	0					Significant
	Private Employee	0	0	2	4					
	Govt Employee	0	3	1	6					Not
Mothers Occupation	Health Professional	2	1	4	8	5.467	0.485	6	12.592	Significant
	Businessman	2	6	28	33					8
	Private Employee	0	5	9	12					
	Govt Employee	3	3	16	25					Not
Fathers Occupation	Health Professional	1	2	7	7	5.051	0.537	6	12.592	Significant
	House wife	0	0	3	7					6
Area of Residence	Rural	2	4	10	16					
	Urban	2	6	25	35	5.604	0.061	2	5.991	Not
	Semi Urban	0	0	0	0					Significant
Do you have Knowledge	Yes	0	0	0	0					
regarding cognitive errors??	No	4	10	35	51	NA				
Do you have any anxiety	Yes	0	0	1	1	0.5=	0.===		.	Not
related problems?	No	4	10	34	50	0.576	0.750	2	5.991	Significant

Table 11: The Chi-square test value shows that there was no significance association between the level of score and other background data variables. The calculated chi-square values were less than the table value at the 0.05 level of significance.

4. Conclusion

As there is a strong positive correlation between cognitive errors and anxiety among adults with 0.738 significance using Pearson correlation coefficient. Gaining better knowledge regarding cognitive errors will help to reduce the

incidence of anxiety and other behavioural disorders among adults. It also helps to reduce the complication which turns to improve the health and behaviour of adults and reduces major public health crisis.

5. Recommendation

• The study need to be replicated in the large sample to validation and generalized its findings.

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- A similar study can be conducted to assess the cognitive errors and their correlation with depression and other mental health disorders.
- A similar study can be conducted to assess the cognitive errors and their correlation with other mental health disorders among clinical samples.
- A follow up study can be conducted to assess the effectiveness of awareness programme regarding cognitive errors on management of anxiety among adults.

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