A COMPARATIVE STUDY TO ASSESS STRESS AND COPING PATTERN

AMONG ADOLESCENT STUDENTS IN SELECTED CBSE AND STATE

BOARD SYLLABUS SCHOOLS.

ABSTRACT

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5 Aim: To assess stress and coping pattern among adolescent students in selected CBSE 6 and state board syllabus schools. Settings and design: selected cbse and state board 7 syllabus schools at Vijayapur. Methods and material: A comparative descriptive research design was adopted for this study. The sample was drawn through simple random sampling 8 technique and consisted of 50 adolescent students each from selected CBSE and state board 9 syllabus schools at Bijapur Statistical analysis used: A structured stress rating scale and 10 coping rating scale was used to assess and compare the stress and coping pattern respectively 11 for data collection. The data was analyzed using descriptive and inferential statistics. Result: 12 The study results shows that 74% of CBSE school adolescent students were under moderate 13 14 level of stress and only 2% of students were having very severe stress similarly 70% of state board school students were under moderate level of stress and about 8% of students were 15 having severe stress. 82% of CBSE school adolescent students had good coping pattern and 16 only 8% of students were having excellent coping and none of the student has poor coping. 17 Similarly 80% of state board school students were having good coping pattern and none of 18 them having poor coping. On comparison between CBSE and state board schools adolescent 19 students stress was similar in both groups and their coping pattern was good, It is evident 20 from the data presented the calculated Z value for stress ($Z_{98} = 0.109$) is lesser than the table 21 value (Z₉₈=1.98). It indicates that there is no significant difference between stress of C B S 22 E and State board syllabus school adolescent students.in both groups. The calculated Z value 23 for coping is $(Z_{98} = 0.283)$ lesser than the table value $(Z_{98} = 1.98)$. It indicate that there is no 24 significant difference between coping pattern of C B S E and State board syllabus school 25 26 adolescent students.

Conclusions:

- 28 To find a comparative study to assess stress and coping pattern among adolescent
- 29 students in selected CBSE and state board syllabus schools.
- 30 Keywords: Comparative Study. Stress. Coping Pattern. Adolescent Students. Cbse. State
- 31 Board. Syllabus. Schools.

32 INTRODUCTION

Today children are tomorrows citizens of country. Adolescents are an embodiment of our dreams and hopes of the future. In the developing country education will take more importance role. Adolescence is a stage of human development that occurs between childhoods to adulthood. Although there are varying definitions of adolescence, adolescence is generally viewed as a stage where young people experience rapid growth of their body and mentality to full maturity during adolescence age. Most problems of adolescence are due to failure in understanding the anatomical, morphological, and psychological changes. These problems may further cause psychological troubles and even induce deviant behavior. Along with that school is the other main source of stress during adolescence. Stress may come from academic tests, fear of failure, interpersonal relations, relationship problems, life changes, family factor, and career exploration. Stress can be defined as adverse reaction of the people to excessive pressure or other types of demand placed on them or external demands that go beyond our capacity. It can affect both health and academic performance of the students.

India's education system is divided into different levels such as pre-primary level, primary level, elementary education, secondary education, undergraduate level and postgraduate level. Present day education aims at gaining knowledge and to be successful in life in terms of academic achievement and not based on capacity and abilities and background of the students. In the academic and policy discourses, low achievement is attributed to unsatisfactory work of the students; the troubles in the world including India are due to the fact that education has become more an intellectual exercise and not a question of moral and spiritual values. Lack of motivation and incompetence in taking corrective steps result in a system that has become burdensome and stressful to students. Parents fail to accept and understand their children and therefore they impose their own desires on them. 5,7

MATERIALS AND METHODS

57 PROBLEM STATEMENT:

- A Comparative Study To Assess Stress And Coping Pattern Among Adolescent Students

 In Selected Chee And State Board Syllabus Schools At Viigyapur
- In Selected Cbse And State Board Syllabus Schools At Vijayapur

OBJECTIVES

88		The research variables in this study are
87	Resea	rch variables
86	attribu	te variable.
85	Tv	wo types of variables have been identified in this study. They are research variables and
83 84	Varia	bles of study
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	uniong	CDSD and state board school adolescent stadents.
77 78	H ₄ :	CBSE and state board school adolescent students.
77	ш.	There is significant association of coping scores with selected demographic variables
76	<i>J</i> -	among CBSE and state board school adolescent students.
75	H ₃ :	There is significant association of stress scores with selected demographic variables
74		school adolescent students.
73	H ₂ :	There is significant difference in the coping scores between CBSE and state board
72		school adolescent students.
71	H_1 :	There is significant difference in the stress scores between CBSE and state board
70		The following hypotheses will be tested at 0.05 level of significance
69	Hypot	theses
68		
67		demographic variables among adolescent students of CBSE and state board syllabus.
66	4.	To find out the association between stress and coping pattern with selected
65	3.	To compare the CBSE and state board adolescent students stress and coping pattern.
64		syllabus as measured with coping scale.
63	2.	To assess the coping pattern among CBSE and state board adolescent students on
61 62	1.	To assess the level of stress among CBSE and state board adolescent students on syllabus as measured with stress scale.
61	1	To assess the level of stress among CRSE and state hourd adolescent students on

89	1. Stress
90	2. Coping
91	. Attribute variable
92 93	The demographical variables in this study consisted, age, gender, type of family, place
94	of stay, and educational status of parents, occupation of parents' family income, and number
95	of siblings
96	Setting of the study
97	For the present study setting was selected CBSE and state board syllabus schools at
98	Bijapur Formal permission was obtained from the concerned authorities for conducting the
99	study.
100	Population
101	In the preset study the population consisted of adolescence studying in selected
102	CBSE and state board syllabus schools at Bijapur.
103	Sample . In this study the sample size was 100 adolescent students 50 each, from selected
104	CBSE and state board high schools at Bijapur
105	Sampling technique
106	In this study, simple random sampling technique is adopted. Simple random sampling is
107	the most pure and every member of population has an equal chance being selected as a
108	subject. ³⁸
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111	Sampling criteria
112	a. Inclusion criteria
113	• Adolescents who are studying in CBSE and state board high schools.
114	• Age group between 15-16 years.

115	• Students who are studying in 10 th class
116	Students who are studying in English medium
117	b. Exclusion criteria
118	Students those who are not willing to participate.
119	• Those not present at the time of data collection
120 121 122	Data collection instrument
123	The instrument for used to collect the data consisted of
124	Proforma for Demographic variables
125	• Stress rating scale to measure stress.
126	Rating scale to measure coping pattern
127	Instruments & preparation of the tool :- Baseline proforma Stress rating scale Coping
128	rating scale
129	Preparation of the blue print.
130	 Development of the first draft of the tool
131	• Development of criteria checklist.
132	• Content validity of the tool
133	• Reliability of the tool.
134	• Pre-testing the tool.
135	• Development of the final draft of the tool
136	• Pilot study
137	
138	
139	Plan for data analysis
140	Part I: Baseline proforma containing sample characteristic would be analyzed using
141	frequency and percentage.

142 143	part II : Stress score and coping score would be analyzed in terms of using frequency and percentage deviation.
144 145 146	part III: Comparison between CBSE adolescent students, stress scores and state board adolescent students stress scores and CBSE adolescent students coping scores and state board adolescent students coping score analyzed by using unpaired 'z' test
147 148 149	part IV a: Chi square test would be computed to find the association of stress scores and coping score between CBSE and state board adolescence students with selected demographic variables.
150	DESCRIPTION OF THE FINAL TOOL
151	The final tool consists of two parts:
152	Section I: Baseline proforma
153	It contains 10 items for obtaining information regarding age, gender, type of family,
154	family income, place of stay, educational status of parents, occupation of the parents and
155	number of siblings (Annexure 8).
156 157	Section II: Stress rating scale
158	This part of the tool consisted of 48 items under the following areas,
159	The respondents were requested to place a tick mark against the most appropriate
160	answer. The maximum score of the stress rating scale was 2. The stress scale was prepared in
161	English. The scores were arbitrarily graded as
162	> 0-24: Mild stress (25%)
163	> 25-48: Moderate stress (52%)
164	➤ 49-72: Severe stress (79%)
165 166	> 73-96: Very severe stress (100%)
167	Section III: Coping rating scale
168	This part of the tool consisted of 32 items in the following areas:

169	Acceptance of reality area
170	Problem solving area
171	Self-control area
172	Seeking social support area
173	Wishful thinking
174	• Spirituality
175	The respondents were requested to place a tick mark against the most appropriate
176	answer. The maximum score of the coping rating scale was 64. The coping scale is prepared
177	in English .The scores were arbitrarily graded as:
178	> 0-16: Poor coping (25%)
179	> 17-32: Moderate coping (50%)
180	> 33-48: Good coping (75%)
181	➤ 49-64: Excellent coping (100%)
182	Organization of findings
183	The data have been analyzed and presented under the following headings
184 185	> Part I: Demographic characteristics.
186	> Part II: Assessment of level of stress of state board and CBSE syllabus school
187	adolescent students.
188	> Part III: Assessment of coping pattern adopted by state board and CBSE syllabus
189	school adolescent students.
190	> Part: IV: Comparison of the CBSE and state board adolescent Students stress and
191	coping pattern.
192	> Part V: Association between stress and coping pattern with selected demographic
193	variables among adolescent students of CBSE and state board syllabus school.
194	Part I: Demographic characteristics

n=100

DEMOGRAPHIC VARIABLE	CBSE SO STUDE		STATE BOARD SCHOOL STUDENTS (50)		
	Frequency	0/0	Frequency	%	
1. Age in years			19,		
a. 15	34	68	22	44	
b. 16	16	32	28	56	
2. Gender					
a. Male	29	58	24	48	
b. Female	21	42	26	52	
3. Place of stay					
a. Hostel	0	0	0	0	
b. Home	49	98	49	98	
c. Relatives' house	1	2	1	2	
d. Others	0	0	0	0	

Table (1) shows that majority of CBSE school students i,e 68% were belong to the age group of 15 years. 44% of state board school students were 15 years of age rest of them belongs to 16 years.

It also reveals that majority (58%) students from CBSE were males and in state board school the sample distribution related to gender is not significantly different (48&52% respectively)

Regarding place of stay, 98% of students belong to both CBSE and state board school students were staying in home and none of them staying in hostel or any other place.

Table 2: Frequency and % distribution of socio-demographic variables related to parents.

209 N-100

Demographic	CBSE school	students(50)	State board school students(50)		
variable					
	Frequency	%	frequency	%	
1.Education status of	the father	L			
a.Illitarate	1	2	0	0	
b. Primary school	1	2	1	2	
c. secondary school	5	10	3	6	
d.PUC	6	12	10	20	
e. Graduate	21	42	24	48	
f .post Graduate	16	32	12	24	
2.Education status of	the mother				
a.Illitrate	1	2	1	2	
b. Primary school	3	6	6	12	
c. secondary school	11	22	12	24	
d.PUC	7	14	14	28	
e. Graduate	21	42	16	32	
f. post Graduate	7	14	1	2	
3.Occupation of fathe	r	<u> </u>	<u> </u>		
a.Govt.employee	15	30	24	48	
c. Private employee	31	62	19	38	
c. Agriculture	4	8	6	12	
d. Cooli	0	0	1	2	
4.Occupation of moth	ier				
a.Govt.employee	4	8	3	6	
c.Private employee	6	12	1	2	
c. Agriculture	0	0	0	0	
e.House wife	40	80	46	92	

Table:2 reveals that majority of father of both CBSE and state board students (42&48% respectively) were graduates 32%,24% respectively were post graduates none of father of state board school students were illiterate and only 1 father of CBSE student was illiterate.

Regarding educational status of mother, majority of mothers from both category were graduates (42%&32% respectively):14% of mothers of CBSE students were post graduates and only 2% each from both group were illiterate.

About occupation of father ,majority i,e 68% of father of CBSE school students were private employees, majority i,e 48% of father of state board school students were Govt. employee, only 2% of state board school students were coli.

Regarding mothers occupation, majority of mothers of both groups i.e. 80% & 92% respectively were house wives and none of them were doing agriculture work.

Table 3: Frequency and percentage distribution of socio-demographic variables related to family. N-100

DEMOGRAPHIC VARIABLE	CBSE SCHO STUDENTS (STATE BOARD SCHOOL STUDENTS(50)		
	Frequency	%	Frequency	%	
1. Type of family					
a. Nuclear	33	66	34	68	
b. Joint	17	34	14	28	
c. Extended	0	0	2	4	
2. Income of the family (In Rupees	s)				
a. Below 5000/-	0	0	4	8	

b.	5001/ 10000/-	7	14	11	22
c.	10,001/- and above	43	86	35	70
3. Nui	nber of siblings				
a.	Nobody	7	14	4	8
b.	1	18	36	22	44
c.	2	14	28	18	36
d.	3 and above	11	22	6	12

Table (3) shows that majority of both CBSE and state board students belongs to nuclear family(66%&68% respectively), 34%&28% respectively were in joint family and none of the CBSE student belongs to extended family and only 4%were state board school students belongs to extended family.

Regarding income of family, majority of both CBSE and state board school students have family income above 10001(86%&70% respectively).14%&22% of both group students family were having income between 5001 to 10000 none of CBSE students have family income < 5000 and only 8% family and only 8% of state board school students belongs to the family of monthly income below 5000.

About number of siblings' majority of both CBSE and state board school students (36&44% respectively) having single siblings. 28&36% respectively were having 2 siblings. 22&12% respectively were having 3 sibling and 14&8% of both group were having no siblings.

Part II: Assessment of level of stress of state board and CBSE syllabus school adolescent students

Level of stress among CBSE school adolescent students

n-50

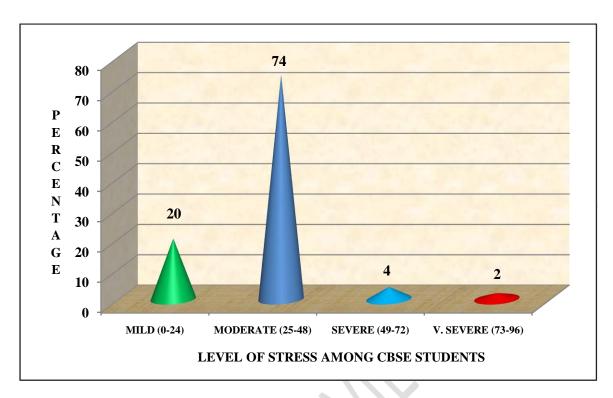


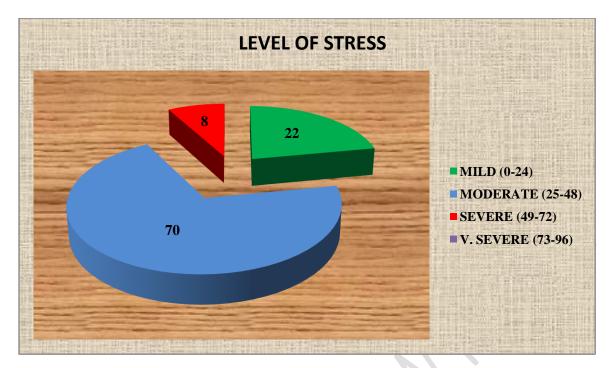
Figure 3:- Pyramid diagram shows the percentage distribution of Stress score among C

B S E school adolescent students.

Fig; 1 reveals that 74% of CBSE school adolescent students were under moderate level of

stress and only 2% of students were having very severe stress

Level of stress among state board school adolescent students



257 Figure 4:- Pie diagram shows the percentage distribution of Stress score among state

board school adolescent students.

Fig;4 reveals that 70% of state board school students were under moderate level of stress and only 8% of students were having severe stress

Part III: Assessment of coping pattern adopted by state board and CBSE syllabus school adolescent students

Coping scores of CBSE school adolescent students

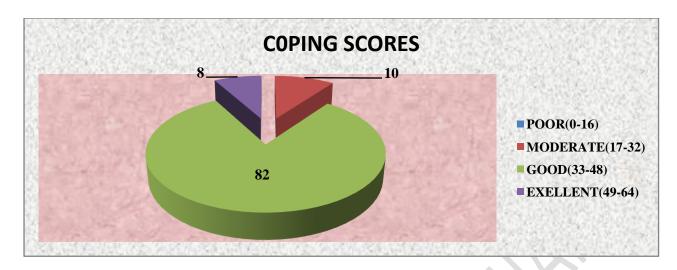


Figure 5:- Pie diagram shows the percentage distribution of coping score among CBSE school adolescent students

Fig;5 reveals that 82% of CBSE school adolescent students were under good coping

pattern and only 8% of students having excellent coping and none of the student has poor

275 coping.

Coping scores of state board school adolescent students

n-50

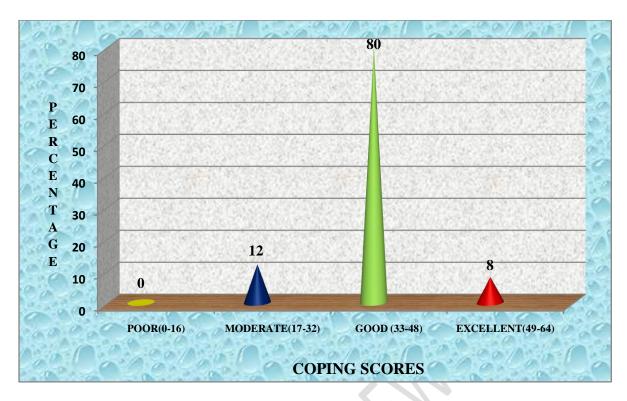


Figure 6:- Bar diagram shows the percentage distribution of coping score among

State board school adolescent students

Fig:6 reveals that 80% of state board school students were under good coping pattern and none of them having poor coping

Part: IV: Comparison of the CBSE and state board syllabus school adolescent Student's stress and coping pattern.

294 Table- 4 **n-100**

PATTERN	СВ	CBSE		STATE BOARD		REMARK		
	n_1	mean	n_2	Mean	SD	Z _{CAL}	$ m Z_{TAB}$	
STRESS	50	32.02	50	32.78	34.62	0.109	1.98	

INFERENCE: It is evident from the data presented in Table 4 that the calculated Z value for stress (Z $_{98}$ = 0.109) is lesser than the table value (Z $_{98}$ =1.98). It indicates that there is no significant difference between stress of C B S E and State board syllabus school adolescent students.

Comparison of stress level between state board and CBSE syllabus school adolescent students

n-100

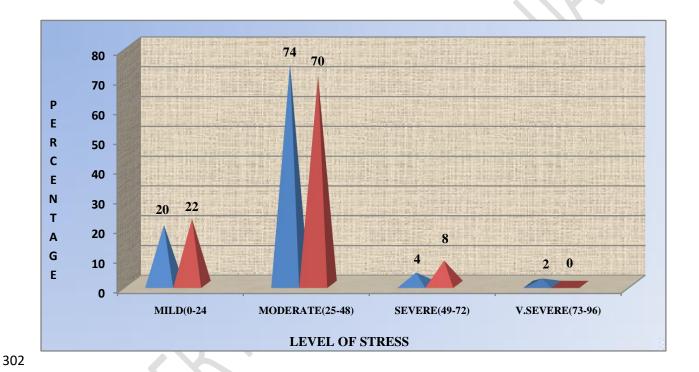


Figure 7:- Bar diagram shows the percentage distribution of stress scores among CBSE and state board syllabus school adolescent students

Comparison of the CBSE and state board syllabus school adolescent Student's coping

306	pattern.	n- 100	Table-5

Pattern	C B S E school		State board school		Remarks		
	stud	students		students			
	n_1 mean n_2 M		Mean	SD	Z _{Cal}	Z _{Tab}	
Coping							

50	41.5	50	39.16	41.20	0.283	1.98

Inference: The calculated Z value for coping is($Z_{98} = 0.283$) lesser than the table value ($Z_{98} = 1.98$). It indicate that there is no significant difference between coping pattern of C B S E and State board syllabus school adolescent students.

Comparison of coping level between CBSE and state board syllabus school adolescent students.

n-100

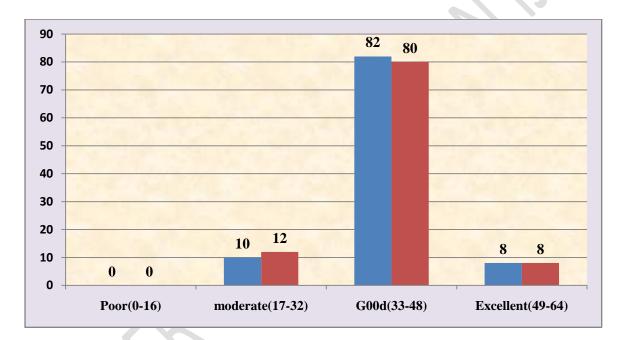


Figure 8:- Bar diagram shows the percentage distribution of coping score among CBSE and state board syllabus school adolescent students

Part V: Association between stress and coping pattern with selected demographic variables among adolescent students of CBSE and state board syllabus.

Table (6) Association of stress scores of selected Demographic

322 n=50

Demographic	Category	S	>	χ^2	P	Df	Remark
Variables		media n	median		value		s
Age in years	15 years	14	8				
	16 years	12	16	2.11	3.84	1	NS
Gender	Male	10	14	1.96			
	Female	16	10		3.84	1	NS
Type of family	Nuclear	17	18		12		
	Joint	8	5	0.53	3.84	1	NS
	Extended	1	1	11.0			
Educational	Illiterate	0	0				
status of the	Primary school	1	0				
father	High school		2	9.26	9.49	4	NS
	PUC	4	6				
	Degree	10	4				
	Post graduate	10	2				
Educational	Illiterate	0	1	7.36	7.82	3	NS
status of the	Primary school	4	2				
mother	High school	9	2				
	PUC	4	10				
	Degree	9	8				
	Post graduate	0	1				

The chi-square test to find the association of Stress score of state board syllabus school adolescent students with selected demographic variables. Shows no significant association at 0.05 level of significance. Therefore null hypothesis is accepted and research hypothesis is rejected.

CBSE school adolescent students

n=50

Demographic	Category	<u> </u>	>	χ^2	P	Df	Remark
Variables		media	median		value		s
		n					
Age in years	15 years	20	13				
	16 years	7	10	1.68	3.84	1	NS
Gender	Male	13	16				
	Female	14	7	2.32	3.84	1	NS
Type of family	Nuclear	20	13				
	Joint	7	10	1.53	3.84	1	NS
	Extended	0	0				
Educational	Illiterate	0	1				
status of the	Primary school	0	1				
father	High school	4	4	0.65	9.49	4	NS
	PUC	3	3				
	Degree	11	9				
	Post graduate	9	7				
Educational	Illiterate	0	1				
status of the	Primary school	0	3				
mother	High school	5	9	4.5	7.82	3	NS
	PUC	3	5				
	Degree	14	7				
1113	Post graduate	5	2				

The chi-square test to find the association of Stress score among CBSE syllabus school adolescent students with selected demographic variables. Shows no significant association at 0.05 level of significance. Therefore null hypothesis is accepted and research hypothesis is rejected.

Table (8) Association of coping scores with selected Demographic Variables among state board school adolescent students n=50

Demographic	Category	≤	>	χ^2	P	df	Remark
Variables		media n	median		value		s
	1.5	4.5					
Age in years	15 years	15	7				
	16 years	11	17	4.1	3.84	1	S
Gender	Male	14	10				
	Female	12	14	0.76	3.84	1	NS
Type of family	Nuclear	19	15				K
	Joint	7	9	0.61	3.84	1	NS
	Extended	0	0				
Educational	Illiterate	0	0				
status of the	Primary school	0	0				
father	High school	3	1	3.3	5.99	2	NS
	PUC	7	4				
	Degree	9	15				
	Post graduate	7	5				
Educational	Illiterate	0	0				
status of the	Primary school	3	4				
mother	High school	6	5	0.25	7.82	3	NS
	PUC	8	6				
	Degree	9	8				
	Post graduate	0	1				

The chi-square test to find the association of coping scores among state board school adolescent students with selected demographic variables. Shows no significant association at 0.05 level of significance. Therefore null hypothesis is accepted and research hypothesis is rejected.

Table (9) Association of coping scores with selected Demographic Variables among CBSE school adolescent students n=50

Demographic	Category	≤ media	>	χ^2	P	df	Remark
Variables		n	median		value		S

Age in years	15 years	20	13				
	16 years	10	7	0.013	3.84	1	NS
Gender	Male	19	10				
	Female	11	10	0.86	3.84	1	NS
Type of family	Nuclear	18	14				
	Joint	12	6	0.51	3.84	1	NS
	Extended	0	0				
Educational	Illiterate	0	0				K
status of the	Primary school	0	0				
father	High school	6	1	5.91	7.82	3	NS
	PUC	5	1				
	Degree	13	8				
	Post graduate	6	10				
Educational	Illiterate	0	0				
status of the	Primary school	3	2				
mother	High school	8	3	3.57	9.49	4	NS
	PUC	5	2				
	Degree	12	8				
	Post graduate	2	5				

The chi-square test to find the association of coping scores among CBSE school adolescent school adolescents with selected demographic variables. Shows no significant association at 0.05 level of significance. Therefore null hypothesis is accepted and research hypothesis is rejected.

Discussion

In this comparative study to assess stress and coping pattern among adolescent students in selected CBSE and state board syllabus schools. Present study that there was no significant

association between stress and coping pattern among adolescent students in selected CBSE and state board syllabus schools.

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Conclusion

- The main aim of the study is conducted comparative study to assess stress and coping pattern among adolescent students in selected CBSE and state board syllabus schools. among 100 students are selected as samples. Baseline proforma It contains 10 items for obtaining information regarding demographical variables. Stress rating scale this part of the tool consisted of 48 items, The stress scale was prepared in English. The scores were arbitrarily graded as 0-24: Mild stress (25%) 25-48: Moderate stress (52%) 49-72: Severe stress (79%) 73-96: Very severe stress (100%) and Coping rating scale this part of the tool consisted of 32 items. The coping scale is prepared in English .The scores were arbitrarily graded as 0-16: Poor coping (25%) 17-32: Moderate coping (50%) 33-48: Good coping (75%) 49-64: Excellent coping (100%) when the data was collected to do the statistical analysis, the result has shown that the stress and coping mechanism will play important role in student life to reach the goals.
- Recomdations.
- On the basis of the present study, the following recommendations have been made for further
- 371 study:
- 1. The present study may be replicated on a larger sample size which may help to draw more
- 373 definite conclusions and make generalizations.
- 2. An experimental study can be conducted among adolescents. Effect of selected coping
- 375 pattern on reduction of stress
- 3. A similar study can be replicated in different settings.
- 4. A similar study can be conducted on the students on other branches of studies.

- 5. An evaluative study can be done to determine the effectiveness of relaxation therapy in
- 379 reduction of stress.
- 380 6. A similar study can be carried out using other teaching strategies like video films,
- 381 computer assisted instructions, etc.
- 382 7. An evaluative study on the effectiveness of stress management techniques among
- 383 adolescents.

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