

E-ISSN: 2582-2160 • Website: <u>www.ijfmr.com</u>

• Email: editor@ijfmr.com

# Study on the Relation Between Mental Health and Academic Achievement of Higher Secondary Students

## Md Rabbani<sup>1</sup>, Sujoy Barman<sup>2</sup>

<sup>1</sup>Guest Lecturer, Durgapur Women`s College, Affiliated to RGU <sup>2</sup>State Aided College Teacher, Raiganj Surendranath Mahavidyalaya

#### **ABSTRACT:**

The present study aimed at examining the relationship between mental health and academic achievement of school students. For this purpose 230 students (Boys-108 & Girls-122) were selected from four different schools where two urban and two rural school of Raiganj Block in Uttar Dinajpur district. The marks obtained in class 'XI' of West Bengal Higher Secondary Board was used as the indicator of academic achievement. The academic achievement scores of the sample were collected by stratified random sampling technique which considered as Descriptive research methodology. The result showed that urban students was mentally healthy than rural students. Mentally health was positively related with the academic achievement.

Keywords: Mental health, academic achievement, higher mentally health, lower mentally health.

### Introduction:

Mental health is an expression we use every day. It is very broad term, which includes physical, mental, social and emotional aspects of a person's adjustment. Mental health is the balanced development of the individual's personality and emotional attitudes which enable him to live harmoniously with his/her fellow men/women. Mental health is a state of well-being in which an individual realize his/her own abilities, can cope with the normal stresses of life, can work productively and is able to make a contribution to his/her community. As with physical health , mental health changes at different points in individual' lives based on both biological and environmental factors. Many young people enjoy mental wellness, meaning that they have positive regard for themselves, enjoy positive relationship with the people who are important to them and are generally resilient when faced with challenges in their lives at home and school.

According to W.H.O., "Mental Health is a state of well-being in which the individual realizes his or her own abilities, can cope with the normal stresses of life, can work productively and fruitfully and is able to make a contribution to his or her own community".

Academic achievement can be defined as, what a student does or achieve at school, college or university in class in a laboratory library or project work. Academic achievement is commonly measured by examinations or continuous assessment but there is no general agreement on how it is best tested or which aspect are most important procedural knowledge such as fact. Academic achievement can be defined as excellence in all academic disciplines, in class as well as extracurricular activities. It includes



excellence in sporting, behavior, confidence, communication skills, punctualities, assertiveness, arts, culture and the like. Academic achievement is among the most thoroughly studied social consequence of mental health problems.

**Objective of the study:** Every investigation investigated in the purpose to fulfill some objectives, thus the study also has some unique and genuine objectives to achieve, and specific objectives of this study were-

1. To measure the mental health of the students in class XII.

- 2. To explore the relation of academic achievement level (higher & lower) with mental health in status of the higher secondary school students.
- 3. To explore the relation between mental health and academic achievement among the students class XII in the terms of their Gender and locality.

**Hypotheses (null) of the study:** To fulfill the selected objective, the investigator constructed the following Null hypotheses of the study –

 $H_{0.}$  1: There would be no significant correlation between students' mental health and academic achievement.

 $H_{0.}$  2: There would be no significant correlation between boy students' mental health and academic achievement.

 $H_{0.}$  3: There would be no significant correlation between girl students' mental health and academic achievement.

 $H_0$ . 4: There would be no significant correlation between rural students' mental health and academic achievement.

 $H_{0.5}$ : There would be no significant correlation between urban students' mental health and academic achievement.

H<sub>0</sub>. 6: There would be no significant correlation between rural boy students' mental health and academic achievement.

H<sub>0</sub>. 7: There would be no significant correlation between rural girl students' mental health and academic achievement.

 $H_{0.}$  8: There would be no significant correlation between urban boy students' mental health and academic achievement.

H<sub>0</sub>. 9: There would be no significant correlation between urban girl students' mental health and academic achievement.

**Variables**: In this study, the mental health and academic achievement of the students were considered as the research variables and gender and locality were considered as the independent variables.

**Sample:** A sample of 230 students who studying in class twelve, different schools of Raiganj Block in Uttar Dinajpur District of West Bengal, selected on stratified random basis for the present study. The investigator selected two higher secondary schools from urban and two higher secondary schools from rural areas of Raiganj Block in Uttar Dinajpur District in the state of West Bengal. The stratification was based on gender (male & female) and level of achievement (High achievers & Low achievers). Higher achievers, who obtained marks above 65% and low achievers who obtained marks 50% in their Eleventh class examination.



E-ISSN: 2582-2160 • Website: <u>www.ijfmr.com</u> • Email: editor@ijfmr.com

NO.	SCHOOLS		SCHOOI	LS	SCHOOLS		COLLEC	CTED
							BOYS	GIRLS
1.	Bhagilata High Scho	ool	Rural Co	-Ed	Bhagilata,	Raiganj,	48	32
	(H.S.)				Uttar Dinaj	ipur		
2.	Karnajora Hi	gh	Rural Co	-Ed	Karnajora,	Raiganj,	26	50
	School (H.S.)				Uttar Dinaj	ipur		
3.	Raiganj Sri	Sri	Urban CO	D-Ed	Raiganj,	Uttar	06	40
	Ramkrishna				Dinajpur			
	Vidyabhaban							
4.	Mohanbati Hi	gh	Urban Co	o-Ed	Raiganj,	Uttar	28	00
	School (H.S.)				Dinajpur			
							108	122
	Total				Rural =	156		
					Urban =	= 74	Tota	l = 230

**Tools**: The investigator adopted the five point scale for measuring mental health and academic achievement of the students and collecting the required data in this study as a psychological tool. Mental health inventory developed and standardized by Dr. Sushma Talesara and Dr. Akhtar Bano was used for measuring the mental health status of the students.

**Analysis and Interpretation of the study:** The Investigator analyzed his data using IBM statistics v.21 and Microsoft Excel – 2007. Hence he presented the analysis in two sections –

- 1. Representation of Descriptive statistics and
- 2. Representation of Inferential statistics.
- Presentation of the Descriptive Statistics of mental health and academic achievement scores of the sample.

Descriptive Statistics				
		Statistics	Std. Error	
	Mean	150.3826	1.64245	
Mental Health	Median	151.5000		
	Variance	620.456		
	Std.	24.90895		
	Deviation			
	Minimum	94.00		
	Maximum	209.00		
	Range	115.00		
	Skewness	.094	.160	
	Kurtosis	586	.320	
	Mean	61.0391	1.25396	
	Median	61.0000		



E-ISSN: 2582-2160 • Website: <u>www.ijfmr.com</u> • Email: editor@ijfmr.com

	Variance	361.653	
	Std.	19.01719	
Academic	Deviation		
Achievement	Minimum	28.00	
	Maximum	94.00	
	Range	66.00	
	Skewness	048	.16
	Kurtosis	-1.300	.32

This table shows the descriptive statistics of mental health (M=150.3826, SD=24.90895) and academic achievement (M=61.0391, SD=19.01719) of total sample (N=230).

#### > Presentation and Interpretation of the Inferential Statistics.

**H0. 1:** There would be no significant correlation between mental health and academic achievement of the higher secondary students.

Correlations				
		Mental Health	Academic	
			Achievement	
	Pearson	1	.057	
Correlation			.387	
Mental Health	Sig. (2-tailed)	230	230	
	Ν	.057	1	
Academic	Pearson	.387		
Correlation		230	230	
Achievement	Sig. (2-tailed)			
	Ν			

This table shows that the relation between Mental Health and Academic Achievement of the higher secondary students (N=230) are positive and statistically non-significant (r=.057, p>0.005). Hence the null hypothesis (**H0.1**) will be accepted and it may be interpreted that there is a no-significant correlation between mental health and academic achievement of the higher secondary students.

**H0. 2:** There would be no significant correlation between mental health and academic achievement of male students' higher secondary level.

. ..

	Correlatio	ons <sup>a</sup>	
		Mental Health	Academic
			Achievement
	Pearson	1	077
	Correlation		
Mental Health	Sig. (2-tailed)		.428
	Ν	108	108
	Pearson	077	1
Academic	Correlation		



E-ISSN: 2582-2160 •		Website: <u>www.ijfmr.com</u>	٠	Email: editor@ijfmr.com
---------------------	--	-------------------------------	---	-------------------------

Achievement	Sig. (2-tailed ) N	.428 108	108		
a = Gender (Male)					

This table shows that the relation between Mental Health and Academic Achievement of the male students (N=108) will be negative and statistically non-significant (r=-.077, p>0.005). Hence the null hypothesis (H0. 2) accepted and it may be interpreted that there is a no-significant correlation between mental health and academic achievement of the male students of higher secondary level.

H0. 3: There would be no significant correlation between mental health and academic achievement of female students' higher secondary level.

	Mental Health	Academic
		Achievement
Pearson	1	.195*
Correlation		
Sig. (2-tailed)		.032
Ν	122	122
Pearson	.195*	1
Correlation		
Sig. (2-tailed)	.032	
Ν	122	122
	Correlation Sig. (2-tailed ) N Pearson Correlation Sig. (2-tailed ) N	CorrelationSig. (2-tailed )N122Pearson.195*CorrelationSig. (2-tailed ).032N122

### Correlations<sup>a</sup>

\*= Correlation is significant at the 0.05 level (2 – tailed)

#### **a** = Gender (Female)

This table shows that the relation between Mental Health and Academic Achievement of the female students (N=122) of higher secondary class are positive and statistically significant (r=.195<sup>\*</sup>, p>0.005). Hence the null hypothesis (H0. 3) will be rejected and it may be interpreted that there is a significant correlation between mental health and academic achievement of the female students of higher secondary level.

H0. 4: There would be no significant correlation between mental health and academic achievement of urban students' higher secondary level.

1 4.

Correlations <sup>a</sup>				
		Mental Health	Academic	
			Achievement	
	Pearson	1	.202	
	Correlation			
Mental Health	Sig. (2-tailed)		.087	
	Ν	74	74	
	Pearson	.202	1	
Academic	Correlation			
Achievement	Sig. (2-tailed)	.087		
	Ν	74	74	
	a Unhan (I			

#### a = Urban (Locality)



This table shows that the relation between Mental Health and Academic Achievement of the urban students (N=74) are positive and statistically non-significant (r=.202, p>0.005). Hence the null hypothesis (H0. 4) will be accepted and it may be interpreted that there is a non-significant correlation between mental health and academic achievement of the urban students of higher secondary level. H0. 5: There would be no significant correlation between mental health and academic achievement of

rural students' higher secondary level.

	Correlatio	ons <sup>a</sup>	
		Mental Health	Academic
			Achievement
	Pearson	1	071
	Correlation		
Mental Health	Sig. (2-tailed)		.375
	Ν	156	156
	Pearson	071	1
Academic	Correlation		
Achievement	Sig. (2-tailed)	.375	
	Ν	156	156

#### a = Rural (Locality)

This table shows that the relation between Mental Health and Academic Achievement of the rural students (N=156) are negative and statistically non-significant (r=-.071, p>0.005). Hence, the null hypothesis (H0. 5) will be accepted and it may be interpreted that there is a non-significant correlation between mental health and academic achievement of the rural students of higher secondary level.

H0. 6: There would be no significant correlation between mental health and academic achievement of urban male students' higher secondary level.

		Mental Health	Academic
			Achievement
	Pearson	1	.175
	Correlation		
Mental Health	Sig. (2-tailed)		.315
	Ν	34	34
	Pearson	.175	1
Academic	Correlation		
Achievement	Sig. (2-tailed)	.315	
	Ν	34	34

Correlations <sup>a</sup>

#### a = Urban Male (Gender Locality)

This table shows that the relation between Mental Health and Academic Achievement of the urban male students (N=34) are positive and statistically non-significant (r=.175, p>0.005). Hence, the null hypothesis (H0. 6) will be accepted and it may be interpreted that there is a non-significant correlation between mental health and academic achievement of the urban male students of higher secondary level.

H0. 7: There would be no significant correlation between mental health and academic achievement of urban female students' higher secondary level.



E-ISSN: 2582-2160 • Website: www.ijfmr.com

• Email: editor@ijfmr.com

Correlations <sup>a</sup>				
		Mental Health	Academic	
			Achievement	
	Pearson	1	.166	
	Correlation			
Mental Health	Sig. (2-tailed)		.313	
	Ν	40	40	
	Pearson	.166	1	
Academic	Correlation			
Achievement	Sig. (2-tailed)	.313		
	Ν	40	40	

a = Urban Female (Gender Locality)

This table shows that the relation between Mental Health and Academic Achievement of the urban female students (N=40) are positive and statistically non-significant (r=.166, p>0.005). Hence, the null hypothesis (H0. 7) will be accepted and it may be interpreted that there is a non-significant correlation between mental health and academic achievement of the urban female students of higher secondary level.

H0. 8: There would be no significant correlation between mental health and academic achievement of rural male students' higher secondary level.

Correlations <sup>a</sup>				
		Mental Health	Academic	
			Achievement	
	Pearson	1	185	
	Correlation			
Mental Health	Sig. (2-tailed)		.115	
	Ν	74	74	
	Pearson	185	1	
Academic	Correlation			
Achievement	Sig. (2-tailed)	.115		
	Ν	74	74	
	o – Durol M	ale (Conder Locali	t)	

a = Rural Male (Gender Locality)

This table shows that the relation between Mental Health and Academic Achievement of the rural male students (N=74) are negative and statistically non-significant (r=-.185, p>0.005). Hence, the null hypothesis (H0. 8) will be accepted and it may be interpreted that there is a non-significant correlation between mental health and academic achievement of the rural male students of higher secondary level.

H0. 9: There would be no significant correlation between mental health and academic achievement of rural female students' higher secondary level.



E-ISSN: 2582-2160 • Website: www.ijfmr.com

• Email: editor@ijfmr.com

Correlations <sup>a</sup>				
		Mental Health	Academic	
			Achievement	
Mental Health	Pearson	1	.098	
	Correlation			
	Sig. (2-tailed)		.379	
	Ν	82	82	
	Pearson	.098	1	
Academic	Correlation			
Achievement	Sig. (2-tailed)	.379		
	Ν	82	82	

a = Rural Female (Gender Locality)

This table shows that the relation between Mental Health and Academic Achievement of the rural students (N=156) are positive and statistically non-significant (r=.098, p>0.005). Hence, the null hypothesis (H0. 9) will be accepted and it may be interpreted that there is a non-significant correlation between mental health and academic achievement of the rural female students of higher secondary level.

#### Findings of the study:

- There was a non-significant positive correlation (r=0.57, p>0.005) between mental health and academic achievement of the total students.
- There was a non-significant negative correlation (r=-.077, p>0.005) between mental health and • academic achievement of the total male students.
- There was a significant positive correlation (r=.195, p>0.005) between mental health and academic • achievement of the total female students.
- There was a non-significant positive correlation (r=.202, p>0.005) between mental health and • academic achievement of the total urban students.
- There was a non-significant negative correlation (r=-.071, p>0.005) between mental health and • academic achievement of the total rural students.
- There was a non-significant positive correlation (r=.175, p>0.005) between mental health and • academic achievement of the total urban male students.
- There was a non-significant positive correlation (r=.166, p>0.005) between mental health and • academic achievement of the total urban female students.
- There was a non-significant negative correlation (r=-.185, p>0.005) between mental health and • academic achievement of the total rural male students.
- There was a non-significant positive correlation (r=.098, p>0.005) between mental health and • academic achievement of the total rural female students.

Discussion and Results of the study : The study concluded that the students' mental health is the major factor for their academic achievement as it was found that maximum is positively correlated with the academic achievement of the students, which is an indication for the increased academic achievement for those who showed a higher level of mental health.studies have also show that mental health of a students has maximum effects on their academic performance. Hypothesis has also proved that there is a significant difference between total female of secondary school at Raiganj block as rural areas girls are



E-ISSN: 2582-2160 • Website: <u>www.ijfmr.com</u> • Email: editor@ijfmr.com

getting less educational opportunity. Parents and teachers attitude towards girls in rural areas that are different than the girls in urban areas at home and school. Therefore, parents and the teachers should be more conscious for nurturing mental health among the students.

**Significance of the study :** Mental health is an enduring factor that influence the success of human in his/her activity and academic achievement is also an influencing factor of an individual to belong among the society. The investigator felt that there would be a relation between mental health and academic achievement and mental health and adjustment also mental health and others variables of the students of class XII in relation to their gender , locality of residence and level of achievement . Hence , the investigator wishes to design study to examine the relation of Mental Health and academic achievement of the students which will explore the nature of the said relations and will be helpful to the society . It was also expected t hat the findings of present study would contribute to fill some gap and might help in generalization regarding these variables .

#### **References:**

- 1. Kasinath. (2003). Home Environment, Mental Health and Academic Achievement among Hr. Secondary School Students. *Journal of Education and Practice*. Vol -1 (1),1-7.
- 2. Chopra, S. L. (1968).Measured intelligence and academic achievement as related to urban and rural residence. *Rural Sociology*.33 (2), 214 217.
- 3. Singh, B. K. (1965). Some non intellectual correlates of academic achievement. *Unpublished Ph.D. Thesis.* Patna University, Patna.
- 4. Singh, S. K. (2015). Mental Health and Academic Achievement of College Students. *The International Journal of Indian Psychology*. Volume 2.
- 5. Kaura, B. L., Musa, D. D., Abubakar, A. I., (2021). Correlate of Stress, Mental Health and Academic Achievement among Female Students in Federal College of Education (Technical) Gusau, Zamfara State. *Kano Journal of Educational Psychology (KaJEP)*. Volume 3, No. 1, June.
- Khan,A. N. & Husain,N.(2021). Academic Achievement, Stress and Home Related Causes to Mental Health of Madarsa Students. *Journal of Research in Humanities and Social Science*. Volume 9 ~ Issue 6 (2021)pp: 86-96
- 7. Agolla, J., Ongori, H. (2009). An assessment of academic stress among undergraduate students: The case of the University of Botswana. Educational Research and Review, 4(2), 63–70.
- 8. Agnafors, S., Barmark, M., & Sydsjo, G. (2021). Mental Health and Academic Performance: A Study on Selection and Causation Effects from Childhood to Early Childhood. Social Psychiatry and Psychiatric Epidemiology, 56, 857-866.
- Bas, G. (2021, January 20). Relation between Student Mental Health and Academic Achievement Revisited: A Meta-Analysis | IntechOpen. Relation Between Student Mental Health and Academic Achievement Revisited: A Meta-Analysis | IntechOpen. Retrieved October 25, 202 Chong,C. (2022). Survey finds 2 in 5 S'poreans have mental health struggles; initiative lauched to drive action.5-sporeans-have-mental-health-struggles-new-initiative-launched-to-drive-action Duncan, M. J., Patte, K. A., & Leatherdale, S. T. (2021). Mental Health Associations with Academic Performance and Education Behaviors in Canadian Secondary School Students. Canadian Journal of School Psychology, 36(4), 335–357.

IMH. (2202). IMH launches its first comprehensive nationwide study to assess the state of mental health among youth in Singapore. SMHS.



- 10. Wyatt, T., Oswalt, S., Ochoa, Y. (2017, June 20). Mental Health and Academic Performance of First-Year College Students. International Journal of Higher Education, 6(3), 178–187.
- 11. McLeod, J. D., Uemura, R., & Rohrman, S. (2012). Adolescent Mental Health, Behavior Problem, and Academic Achievement. Journal of Health and Social Behavior, 53(4), 482-97.