# **Emotional Behavioral Problems & Intelligence Quotient among Children w** ith Intellectual Disabilities: Exploring Correlation

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**Abstract:** The perspective of our own world build upon positive mental health of our growing community. How ever, approximately one in every five children and adolescents has emotional and behavioral disorders at some p eriod of time in their young lives, irrespective of their geographic region or socio-economic status. Behavioral p roblems among children can be comprised of normal development. Such problems are usually fugitive and not e ven noticed and may be exhibited in certain circumstances and not in others. It is being seen all around the worl d how early detection of behavioral and emotional issues has an impact. There has, however, only been a limited amount of systematic study of childhood psychological disorders in developing nations.

The present investigation aimed to investigate the Emotional Behavioral Problems & Intelligence Quotient amo ng Children with Intellectual Disabilities: Exploring Correlation. Descriptive survey method has been used in this research and the sample for the present study were 50 parents of children with intellectual disability studying a nd 12 teachers working at Govt. Rehabilitation Institute for Intellectual Disabilities (GRIID). For the present study Developmental Behavior Checklist (DBC) DBC-P and DBC-T will be used. The result of the study suggests that there is significant correlation between IQ, Age, Gender and Emotional Behavioral Problems among Children with Intellectual Disabilities based on the score obtained through observation from teachers and parents.

Keywords: Emotional Behavior, Intellectual Disability, Intelligence Quotient

#### Introduction

The seeds of the bright future society are in the chil dren of the present day. Given that young children make up a significant amount of the world's popula tion – between 35 and 45 percent- it is imperative t hat we place more of an emphasis on them in the m odern world. The psychological health of our youn ger generations is critical to the future of our nation . Nevertheless, nearly one in five children and adol escents have emotional and behavioral is orders at s ome point of time in their early lives, irrespective o f their geographic region or socio-economic status. Behavioral problems in children can be consider as a phase of normal development. Such problems are generally transient and none can be bother of and m ay be presented in certain settings and not in others. Some school children shown a variety of abnormal behaviors that may be an issue not only for parents and families, but also for teachers and persons in t he community. Globally, people are beginning to re alize how important early identification is for emoti

onal and behavioral issues. The comprehensive stu dy of pediatric psychological disorders in developi ng nations has, however, not received much attentio n up to this point.

#### **Behavior Problem**

The term "Behavior Problem" is used here in a broad sense. Any type of persisting problems which may hamper the successful adjustment of the children can be considered as a behavior problem. Parents and teachers usually come across several types of behavior problems in children. In Wickman's (1928) study which was conducted in America, it was found that teachers and mental hygiene expects disagreed to some extent regarding the seriousness of different types of behavior problems. Inattention, carelessness, laziness and

disobedience was considered as the most serious pr oblems by teachers. The least serious problems acc ording to them included thumb sucking, suspicious ness and sensitiveness.

**Emotional Behavior Problem:** 

A person's capacity to be joyful, manage their emot ions, and pay attention during class is all impacted by an emotional behavioral issue. Gallaudet Univer sity includes the following as signs of an emotional behavioral issue:

- Inappropriate behavior or emotions as compared to the situation's norm.
- Learning challenges that are not a result of another health problem.
- Interpersonal interactions, particularly those who have professors and peers, are difficult for the learner.

# **Emotional Behavioral Disorders and Their Type s:**

**Oppositional Defiant Disorders (ODD):** According to Children's Mental Health Ontario, ODD is a behavior disorder which is characterized by aggressive, agitated, and uncooperative attitudes in children.

**Anxiety:** Everyone experiences anxiety at some time during their lives. It is a common feeling. However, for other people, anxiety can become so severe that it starts to disrupt their everyday activities, which leads to sleeplessness and impairs their performance at work or school.

**Obsessive-Compulsive Disorder (OCD):** OCD is defined by worries and unreasonable thoughts that develop into obsessions and then compulsive behaviors.

# **Problems of Emotional Behavior Children:**

Emotionally disturbed children are sometimes kno wn as problem children. Depending upon the type o f problems exhibited such children are classified int o three categories such as:

### 1. Children with Conduct Problems:

**Behavior traits:** Disobedience, disruptiveness, figh ting, destructiveness, temper, tantrums, irresponsibility, impertinent, jealous, anger, bossy profanity.

**Life history characteristics**: Assaultive, defies aut hority, inadequate guilt feelings and quarrelsome

#### 2. Children with Personality Problems:

**Behavior traits:** Feeling of inferiority, self-conscio usness, social withdrawal, anxiety, crying, hypersen sitive, seldom smiles, depression.

**Life history characteristics**: Shy sensitive, worrie s, timid and has anxiety over own behavior.

# 3. Children with inadequacy-immaturity problems

**Behavior Traits**: Preoccupation, short attention, sp an, clumsiness, passivity, day dreaming, chews objects.

Life History characteristics: Habitually truant fro

m home, unable to cope with a complex word, inco mpetent, immature, and engages in furtive stealing.

# **Intellectual Disability**

Intellectual Disability is a condition in which individuals have difficulty it to adapt and cope with various environments in which they have themselves. The normal intellectual growth of intellectual disabled individual is affected before birth, during birth process or in the early years of development. Developmental milestones are delayed for these children and they cannot learn like a normal child. They face the difficulty in fulfilling their daily needs because of impaired ability to learn and getting challenges for scoring a job for themselves. Furthermore, finds it difficult to become socially acceptable.

# **American Association on Mental Retardation** (1 983) gave a comprehensive definition as mentions.

"The term "mental retardation" (MR) refers to con siderably below average general intellectual perfor mance that manifests during the developmental sta ge and is either linked to or results in concurrent de ficiencies in adaptive behavior."

# Intelligence

One's ability for logic, comprehension, self-awaren ess, learning, emotionality, reasoning, planning, cre ativity, and problem-solving are just a few example s of the different components that make up intellige nce. It is more accurately characterized as the capacity for seeing or inferring knowledge and then retaining it to use for internal adaptive activities.

#### **Intelligence Quotient**

An individual's overall score on a variety of standar dized test scores used to evaluate intellect is known as their "intelligence quotient" (IQ). The mental ag e score obtained from an intelligence test is divided by the person's chronological age, which is also sta ted in years and months, to determine the person's I Q score. The IQ score is calculated by multiplying t he resultant fraction by 100. Although historically t his was not always the case, the median raw score o f the norming sample was classified as IQ 100 whe n the current IQ tests were designed, and scores eac h standard deviation (SD) up or down were defined as 15 IQ points more or fewer. Nearly two-thirds o f people fall into this definition's range of IQs, whic h is between 85 and 115. About 2.5% of the partici pants have scores over 130 and 2.5% have scores b elow 70.

The evaluation of intellectual impairment, employ ment in school, and screening of job candidates all depend on IQ tests. The cognitive abilities of stude nts, such as memory, attention and speed may not b ecome better while improving their scores on stand ardized tests.

#### **Need and Significance of the Study**

As we have seen, students with intellectual disabilit y and emotional behavioral problems and intelligen ce quotient always make trouble for themselves, th eir parents, and school. According to literature, no r esearch has explained the Emotional Behavioral Pr oblems and Intelligence Quotient among Children with Intellectual Disabilities. Because of the poor e conomic and cultural conditions most of families of children with intellectual disability and their inabil ity to use costly treatment these kinds of studies can be great help to this group.

In this regard, this research aimed to investigate the Emotional Behavioral Problems & Intelligence Qu otient among Children with Intellectual Disabilities . The findings of this research will be useful for spe cialists, planners, teachers, and parents.

### Statement of the Problem

Emotional Behavioral Problems & Intelligence Qu otient among Children with Intellectual Disabilities : Exploring Correlation

#### **Objective**

The purpose of this study is to explore the correlati on between emotional behavioural problems and in telligence quotient among children with intellectual disabilities.

# Scope of the Study:

The present research is limited in nature but has so me distinct scope for the children with intellectual disability, special educators, Parents and the admini strators. Following could be the scope of the presen t research:

- The finding of the present research throws lights on how to identify children with intellectual disability.
- The present research is an outcome of Psychologist s, Parents and Teachers.
- This study will also establish the relationship between and intelligence and emotional behavioural problems.

### **Delimitation of the Study:**

- The study is limited to children with intellectual dis ability only.
- The present study is confines to only with sample ( N=50).
- The study is limited to the Government Rehabilitati on Institute for Intellectual Disabilities Sector 31-C , Chandigarh.

#### **REVIEW OF LITERATURE**

Tong (2010) examined the gender differences in the

interaction between intelligence and developmenta l problems along with social competence in first cla ss children. The results interpreted that the understa nding ability of boys essentially correlated with the ir fellow relationship. Other side, the emotional sy mptoms shown by girls had a more correlation with their intellectual abilities. The connection between parenting and intellectual abilities varies in boys an d girls. Children's gender is important factor when assessing the diversity in their intellectual abilities and developmental problems. Furthermore, the style of parenting also affects the development of child ren in different ways.

Forster (2011) proposed that there are significant differences among persons with severe and profound ID in scores on the DBC, showing differences in be havioral and emotional problems. Attention should be given by researchers treating these two diverse g roups as a single group, and by practitioners transm ission such results into practice.

Rao & Raju (2012) did a study on early adolescenc e: emotional and behavioral problem. The study's g oal was to look into the emotional and behavioral is sues that early adolescents who were enrolled in hi gh schools were experiencing, as well as to determi ne the association between these issues and demogr aphic factors including class, gender, medium, and kind of school. The result indicated that 10th class st udents showed emotional and behavioral problems. Further, boys showed emotional problems as comp ared to girls. It was seen that private school also ref lect emotional and behavioral problems. But emoti on problems were find in Government school adole scents. A firm relationship has been form between e motional and behavioral problems among adolesce nts. The outcome of this study recommended for re sult psychological testing and implications in high s chools through purposefulness training.

# **Hypothesis:**

There will be no significant difference in correlatio n between emotional behavioral problems and intel ligence quotient among children with intellectual di sabilities.

# METHODOLOGY

# Sample and Sampling Technique

The sample for the present study were 50 parents of children with intellectual disability studying and 12 teachers working at Govt. Rehabilitation Institute for Intellectual Disabilities (GRIID), Chandigarh.

# Following were the inclusion criteria:

• Willingness of the Subject, Parents and Teachers to

- participate in present study.
- Only those who are studying at Government Rehab ilitation Institute for Intellectual Disabilities Sector 31-C, Chandigarh.
- Gender: Male and female

# Following were the exclusion criteria:

- Those students who are above 18 years of age.
- Those students who are not pursuing in Governmen t Rehabilitation Institute for Intellectual Disabilities Sector 31-C, Chandigarh.

### **Research Design:**

The present study is descriptive research under survey. The main purpose of that study is to bring a precise description of a situation. Survey is a brief discussion or interview of individual about a specific topic. The following step is to design the research once the research project has been precisely specified. A comprehensive set of instructions for gathering data is provided by the research design.

### **Tool:**

For collection of data for any research, the use of appropriate and standardized tool is very important. For the present study Developmental Behavior Checklist (DBC) DBC-P and DBC-T will be used. DBC tool is developed by Stewart L. Einfield and BruceJ.Tonge & published by Developmental Psychiatry and Psychology Monash University, Australia in 1994.

#### **Procedure:**

With the prior permission of concerned authority, subjects (P=50, T=12) were randomly selected with

age group 4-18 yrs. IQ of the subjects were tested by the clinical psychologist, after that tool (DBC-T and DBC-P) were given to teachers and parents to obtain their observation on based on DBC-T and DBC-P respectively about the selected subjects. Instructions were written on the tool and it was also given verbally by the researcher to the participants and enough time was provided to the sample to complete the tool. After the completion of the tool the samples was thanked for their cooperation by the investigator.

Each participant received the tool and were instructed how to go about, they oriented about the ratings given to each option available an then were requested to complete it to the best of their observation and experience. The participants were made clear about the aims and objective of the present study. It was made clear to the participants that their identity will be kept confidential and the data collected will be used for the purpose of this study.

### **Results and Discussions**

Data analysis is the procedure of doing interpretations of the collected data and arriving at conclusion of the study. It is very important aspect because conclusion of the study can be drawn basically on the result we get after an important role.

# Interpretation of Results obtained after Statistical Analysis

Table: Descriptive analysis (Mean and SD) of Teachers and Parents Responses towards TBPS among CW ID

ID .								
Variables	Teacher's Mean± Std. Deviation	Parents 'Mean± Std. Deviation						
Variables	Mean± SD	Mean± SD						
IQ	53.72±11.45	-						
Age	10.92±3.5	-						
Disruptive	17.88±7.63	17±8.11						
Self-absorbed	19.66±10.23	19.52±9.05						
Communication	12.16±4.83	9.08±5.46						
Anxiety	13.18±5.34	11.02±7.71						
Social-Relating	14.24±6.14	9.84±5.71						
*TBPS	77.12±25.79	66.46±29.18						

# \*Total Behaviour Problem Score

Depict the comparison of mean score and SD of em otional behavioral problems and intelligence quotie nt. While analyzing the score of IQ the mean score and SD of teacher and parents were 53.72 and 11.4 5 respectively. The mean and SD score obtained on

age of teachers and parents were 10.92 and 3.5 resp

The analysis of disruptive the mean score of parent s was 17.88and SD 7.63while teachers mean and S D were 17 and 8.11 respectively. Similarly, the comparison of self-absorbed the mean score and SD of

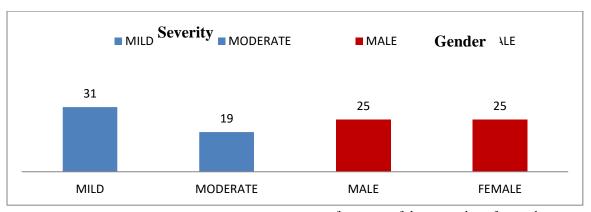
parents were 19.66±10.23and teachers were19.52±9.05. While comparing of communication the mean score and SD of parents were 12.16±4.83and teach ers were 9.08±5.46. While analyzing the score of a nxiety the mean score and SD of parents were 13.1 8±5.34and teachers were 11.02±7.71. The analysis

of social relating shows the mean score and SD of parents were 14.24±6.14and teachers were 9.84±5.7 1. The comparison of TBPS, the mean score and S D of parents were 77.12±25.79and teachers were 66 .46±29.18.

**Details of Demographic Variables** 

Variables	Categories	Frequency	Percent
Severity	Mild	31	62.0
	Moderate	19	38.0
	Male	25	50.0
	Female	25	50.0

# Graphical representation of demographic variable (severity and gender) of individuals with intellectual di sability



The above table represents the frequency distributi on of the responds for IQ category of children. The total number of the respond is 50, out of which 62 % of the responds are from mild and 38% from mo derate category. Figure 2 exhibits the pie chart of th e frequency of the respondents for IQ category. The total number of the respond is 50, out of which 50 % of the responds are from male and 50% from fe male category. Figure 1 exhibits the pie chart of the

frequency of the respondents for gender category.

# **Results and Discussion**

# **Hypothesis 1:**

There will be no correlation between emotional beh avioral problems and intelligence quotient among c hildren with intellectual disability based on the scor es obtained from teachers.

Table 4.3 Results of emotional behavioral of children with intellectual disability based on the scores obtained from teachers

Variables	Gender	\ aa	Disrupt-	Self-absorb	Commu-	Anxiety	ocial-Relat	TBPS
	Jender	Age	privet	ed	nication	Allxiety	ing	
TO.	.395**	342*	390**	516**	116	589**	387**	521**
IQ	.005	.015	.005	.000	.424	.000	.006	.000
		092	223	333*	.031	500**	271	345*
Age		.523	.120	.018	.829	.000	.057	.014
Candan			.553**	.308*	.385**	.527**	.319*	.523**
Gender			.000	.030	.006	.000	.024	.000
Disruptive				.615**	.657**	.499**	.508**	.823**
				.000	.000	.000	.000	.000

Self-absorbed			.489**	.658**	.630**	.870**
			.000	.000	.000	.000
Commissation				.297*	.476**	.693**
Communication				.036	.000	.000
Anxiety					.725**	.804**
					.000	.000
Social-Relating						.813**
						.000

<sup>\*</sup> Significant at the 0.05 level, \*\* Significant at the 0.01 lev

Depicts correlation between IQ and emotional beha vioral problem based on the scores obtained from t eachers. The table indicates that the scores of IQ is correlated with Gender, Age and Domains (Disrupti ve, Self-Absorbed, Anxiety, Social Relating and TB PS) of emotional behavioral problems and the p-val ues were.395\*\*(p<0.01),.342\* (p<0.05),.390\*\*(p<0.0 1),516\*\*(p<0.01),.589\*\*(p<0.01),.387\*\*(p<0.01)and .521\*\*(p<0.01)respectively. The domain where no c orrelation found was communication.116 (p>0.05). When the data was correlated with Age and domain s of Emotional behavioral problems it was only cor related with the three of its domains i.e. Self-Absor bed, Anxiety and TBPS) and the p-values were.333 \*(p<0.05),.500\*\* (p<0.01),.345\*(p<0.05),respectivel y. The domain where no correlation found was Disr uptive .223 (p>0.05), Communication .031(p>0.05) , Social Relating. 271(p>0.05). However, significan t correlation was found between Age and the Total Problem Behavior Score .345\* (p<0.05).

The data was also analyzed with reference to gende r to find out the correlation. A significant correlation was found between Gender and the Emotional be havioral of children with intellectual disability base d on the scores obtained from the teachers. The do main wise analysis shows that Disruptive, Self-Abs

orbed, Communication, Anxiety and Social Relatin g was significantly correlated with gender, the scor es were  $.553^{**}(p<0.01),.308^*$  (p<0.05),.385\*\* (p<0.0 1),.527\*\* (p<0.01),.319\* (p<0.05).

The overall TBPS was also correlated with gender . 523\*\*(p<0.01). Hence the null hypothesis is partially accepted.

The positive and significant correlation indicated th at IQ, Age and Gender are almost moving in the sa me direction. It means that the IQ, Age and Gender have greater influence on the emotional behavioral problems of children with intellectual disability bas ed on the scores obtained from the teachers. This fi nding is corroborated by a research by Molteno (20 01) in which 355 intellectually disabled children en rolled in special schools in Cape Town, South Afric a, were evaluated using the Developmental Behavi oral Checklist—Teacher Version (DBC-T). In comp arison to children in the mild and moderate categori es, those with severe and profound ID had more be havioral issues. Selfishness and autistic traits were t he main behavioral issues among kids with severe i ntellectual disabilities.

# **Hypothesis 2:**

There will be no correlation between emotional beh avioral problems and intelligence quotient among c hildren with intellectual disability based on the scor es obtained from parents.

Results of emotional behavior of children with intellectual disability based on the scores obtained from pa

Variables	Gender	\ aa	Disru-	Self-abso	orbCommu-	Anxiety	Social-Rela	TPBS
	Delidei	Age	ptive	ed	nication		ing	
10	342*	.395**	491**	363**	030	411**	356*	465**
IQ	.015	.005	.000	.010	.837	.003	.011	.001
Gender		092	.302*	.259	.117	.352*	.388**	.379**
		.523	.033	.070	.418	.012	.005	.007
Δ			224	142	209	282*	484**	336*
Age			.117	.325	.145	.047	.000	.017
Disruptive				.850**	.299*	.360*	.454**	.872**
				.000	.035	.010	.001	.000
Self-absorbed					.465**	.343*	.363**	.893**

			.001	.015	.010	.000
				.140	.264	.552**
communication				.334	.064	.000
anxiety					.519**	.599**
					.000	.000
Social-Relating						.673**
						.000

<sup>\*</sup> Significant at the 0.05 level, \*\* Significant at the 0.01 level

**Table 4.4** depicts correlation between IQ and emotional behavioral problem based on the scores obtain ed from parents. The table indicates that the scores of IQ is correlated with Gender, Age and Domains (Disruptive, Self-Absorbed, Anxiety, Social Relating and TBPS) of emotional behavioral problems and the p-values were .342\*\*(p<0.01),.395\*(p<0.05),.491\*\*(p<0.01),363\*\*(p<0.01),.411\*\*(p<0.01),.356\* (p<0.05)and .465\*\*(p<0.01)respectively. The domain where no correlation found was communication .030(p>0.05).

The data was also analyzed with reference to gende r to find out the correlation. A significant correlation n was found between Gender and the Emotional be havioral of children with intellectual disability base d on the scores obtained from the teachers. The do main wise analysis shows that Disruptive, Anxiety and Social Relating was significantly correlated with gender, the scores were .302\*(p<0.05),.352\* (p<0.05),.388\*\* (p<0.01).The domain where no correlation found were Age and domain(Self Absorbed, Communication) .092(p>0.05),.259(p>0.05), .117(p>0.05)

The overall TBPS was also correlated with gender . 379\*\* (p<0.01). Hence the null hypothesis is partially accepted.

When the data was correlated with age and domain s of Emotional behavioral problems it was only cor related with the two of its domains i.e. Anxiety, Soc ial Relating and TPBS) and the p-values were .282\* (p<0.05),.484\*\* (p<0.01),.336\*(p<0.05), respectivel y. The domain where no correlation found was Disr uptive .224 (p>0.05), Self-Absorbed .142(p>0.05), Communication .209(p>0.05).

The positive and significant correlation indicated th at IQ, Age and Gender are almost moving in the sa me direction. It means that the IQ, Age and Gender have greater influence on the emotional behavioral problems of children with intellectual disability bas ed on the scores obtained from the parents. The res earch by Cormack (2000), which found that 50.4%

of the children had DBC scores over the threshold f or a mental condition, lends credence to this findin g. The level of the child's physical handicap was si gnificantly influenced by the parents' assessments o f his or her behavioral and emotional issues.

#### Conclusion

Feeling of a child and his behavior are influenced by outlook, culture, relationships, health, fatigue, a nd family situations, experiences of early childhood care and education and dimension of other factors. So the opportunity for social integration and later e mployment is reduced. The objective of this study was to analyze the correlation between emotional b ehavioral problems and intelligence quotient amon g children with intellectual disabilities. The outcom e of the study suggests that there is significant corre lation between IQ, Age, Gender and Emotional Beh avioral Problems among Children with Intellectual Disabilities based on the score obtained through ob servation from teachers and parents.

#### **References:**

- AAMR. (2002).Mental retardation: definition, class ification, and systems of supports (10<sup>th</sup>Ed.).Americ an Association on Mental Retardation; Washington DC (online)
- [2] Barlow, J., Parsons, J & Brown S.S., (2005). Preve nting emotional and behavioural problems: the effe ctiveness of parenting programmes with children le ss than 3 years of age, Child: Care, Health and Dev elopment, 31(1),33-42, Retrievedfrom:http://onlinelibrary.wiley.com/doi/10.1111/j.13652214.2005.004 47.x/full
- [3] Chadda R.K. (1999). Mental Retardation.In Textbo ok of Postgraduate Psychiatry.Vol 2,2nd Edn. (Ed) Vyas, J.N &Ahuja, N. Reprint (2000), Jaypee Broth ers Medical Publishers (P) Ltd. New Delhi. India. P age 572-585.
- [4] Corbett, J. A. (1985). Mental retardation: Psychiatri c aspects. In M. Rutter& L. Hersov (Eds.), Child an d Adolescent Psychiatry: Modern Approaches (2nd ed.) (pp. 661-678). Oxford: Blackwell Scientific Pu blications.

- [5] Cormack, K.F., Brown, A.C.&Hastings, R.P. (2000) . Behavioural and Emotional difficulties in students attending schools for children and adolescents with severe intellectual disability, Journal of Intellectual Disabilities Research, 44 (2), 124-29.Retrieved fro m: https://www.ncbi.nlm.nih.gov/pubmed/1089837
- [6] Forster, S., Gray, K.M., Taffe, J., Einfeld, S.L. &To nge, B.J. (2011).Behavioural and problems in peopl e with severe and profound intellectual disability, J ournal of Intellectual Disability, 55(2), 190-98. Retr ieved from: https://www.ncbi.nlm.nih.gov/pubmed/ 21199050
- [7] Steinhausen, H. C., C.Winkler Metzke, M.Meier&R. Kannenberg (1997).On study Behavioral and emotional problems reported by parents for ages 6 to 17 in a Swiss, European Child & Adolescent Psychiatry, 6 (3),136–141.
- [8] Khatib, J.M., P.B. Khadi and V. Gaonkar(2014). "Prevalence of emotional behaviour problem among mentally challenged children attending special schools", Karnataka J. Agric. Sci.,27 (3),333-336.
- [9] Weglage, J., Grenzebach, M., Pietsch, M., Feldman n, R., Linnenbank, R., Denecke, J. & Koch, H.G. (2 000). Study Behavioural and emotional problems i n early-treated adolescents with phenylketonuria i n comparison with diabetic patients and healthy c ontrols, Journal of Inherited Metabolic Disease, 2 3(5), 487-96.
- [10] Kavale, Kenneth, Steven Forness& Mark Mostert ( 2004). Defining Emotional or behavioural disorder s: The Quest for Affirmation."Handbook of Emotio nal & Behavioural difficulties..SAGE publications.
- [11] Taraka K., Rama, R&M.V.R. Raju (2012). On Early Adolescence: Emotional and Behavioural Problem, Journal of the Indian Academy of Applied Psychol ogy, 38(1), 34-39.
- [12] Coleman, M.C. (1996). Emotional & Behavioral Di sorders theory and practice, A Simon & Schuster co

- mpany Needham heights, (2) P.No.-18.
- [13] Dekker, M.C., Russell J.N., &. Einfeld, S. E (2002)
  . Study on Assessing Emotional and Behavioral Problems in Children with Intellectual Disability: Revisiting the Factor Structure of the Developmental Behavior Checklist, Journal of Autism and Developmental Disorders, 32 (6), 601–10.
- [14] Martin, M. (1991). The training resource unit –an o utreach model. Australian and New Zealand Journa 1 of Developmental Disabilities, 17(2),201-08
- [15] Murphy, G. (1987). Direct observation as an assess ment tool in functional analysis and treatment. In J. Hogg & N. Raynes (Eds.), Assessment in mental H andicap. London: Croom Helm.
- [16] Philips. (1967). Psychopathology and mental retard ation. American Journal of Psychiatry, 124(1),67–73. Google Scholar, Cross ref.
- [17] PsychGuides.com-"Behavioral Disorder Symptoms , Causes and Effects".Retrieved from: https://www.psychguides.com/guides/behavioral-disorder-symptoms-causes-and-effects/
- [18] Sharma, R.A. (2012): Fundamentals of Special Ed ucation, C/o R. Lal Book Depot Meerut, P-314-15.
- [19] Syed, E.U., Hussein, S.A., & Haidry S. E. (2009). P revalence of emotional and behavioural problems a mong primary school children in Karachi, Pakistan: multi informant survey. Indian Journal of Pediatric s ,76 (6),623-27.
- [20] Tong, L., Shinohara, R., & Others (2010). Relations hip between Children's Intelligence and Their Emot ional/Behavioral Problems and Social Competence: Gender Difference in First Graders, Journal Epide miology, 20(2), 601–10.
- [21] Venkatesan S. (2004). Children with Developmenta 1 Disabilities. SAGE Publications India Pvt. Limite d
- [22] World Health Organization. (1993). The ICD-10 Cl assification of Mental and Behavioural Disorders: Diagnostic Criteria for Research. Geneva: World H ealth Organization.