



**A COMPARATIVE STUDY OF LEFT HANDED ADOLESCENT AND RIGHT
HANDED
ADOLESCENT STUDENT WITH REGARDS TO SOCIO PSYCHOLOGICAL
VARIABLE
AND THEIR ACADEMIC ACHIEVEMENTS**

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Introduction-

Handedness is defined and categorized in different ways. Most people define handedness as the hand that one uses for writing. Some researchers define handedness as the hand that is faster and more precise for manual tasks. Others define it as the preferred hand, regardless of its abilities. Whereas some people always use their right hand or their left hand for most activities, others use one hand or the other depending on the activity. Still other people can use either hand for most functions.

Lefthanders usually prefer using their left hand for delicate tasks; however, there is no good method for predicting which hand a lefthander will choose for a specific task. Although left-handed children usually are more flexible in their hand usage than right-handers, this may be because they are forced to function in a world designed for right-handers.

There is no standard measure for determining degrees of handedness. Some scientists believe that there are only two types of handedness: *right and non-right*. These researchers believe that true left-handedness is rare and that most lefthanders are really mixed-handed. Others believe that ambidexterity.

The finding of most of the researcher shows that the 90% population does most of their daily work with the help of right hand and rest 10% population does most of their daily work with the help of left hand. Due to this, Right hander population is in majority and left hander population is in the minority. Manufacturers always manufacture goods as per the mode of

the population and most of the things are manufactures only for the Right hander and left hander is bound to use them. For e.g. Door handles, Buttons of the shirts, Accelerator of two wheeler Cane opener, Pencil Sharpener, Salute of Armed Forces, Key board of computer etc. Handedness is the polymorphic trait in human. Research shows that 90% of adult populations said to be right- handed and remaining 10% consisting of person variability identified as left-handed, ambidextrous or ambiguously handed (Mc Manus C, 2002, Soper et al, 1986 Ferrarim, 2007), Left handed are in the minority in all human population.

It need to be accepted here that educational practices are framed and education first developed in such a manner which suit the requirement of Right handed Students. No specific provision is made for Left-handed student while constructing various infrastructure facilities and instructional facilities in educational institute. No specific provisions are made available to the left-handed students with regards to the various results under the psychomotor domain of educational object under Bloom's taxonomy of educational objectives. Hence it is research worthy to find out whether Left Handed Students and Right Handed Students differ with respect to their Socio Psychological Variable and their Academic Achievements".

There are no empirical evidence to describe the relationship between handedness and some relevant social variables.

It is academically research worthy to find out whether there exist any significant relationship between human handed and some relevant social variable as *sex, birth-order, academic stream, caste, area of residence and parental education*. Such an investigation may pave the path of exploring the nature one extent of relationship, if any, between handedness and these variables respectively.

This research paper has been prepared by the investigator on the basis of relevant data collected by the researcher with the help of Personal Data Schedule (PDS). On a Sample of 200 adolescent students in which 100 are Left handed and 100 are Right Handed. Student of intermediate classes of Uttarakhand Board from Nainital and Udham Singh Nagar District are considered as sample students by the investigator. Only those student considered as sample student whose mother and father both are alive at the time of data collection. The data were collected by the investigator in the month of Nov-Dec 2015 and analyzed subsequently.

In order to describe the compression between Left Hander and Right Hander Adolescent Student two groups of 100-100 students consider by the researcher as per their Birth order, Area of Residence, Parental Education and Academic achievement with same Gender, Caste and Same Academic Stream of the adolescent Student taken for the investigation.

The following Variables were used in study by the investigator.

1-Sex 2- Caste 3- Academic Stream 4- Academic Achievement 5- Birth order 6- Parental Education 7- Area of Residence

Objective- The purpose of the study was to investigate the comparison between Left Handed and Right Handed Adolescent on above mention variables

- 1- To compare Left Handed and Right Handed Adolescent student w.r.to their Birth Order.
- 2- To compare Left Handed and Right Handed Adolescent student w.r.to their Academic Achievement.
- 3- To compare Left Handed and Right Handed Adolescent student w.r.to their Area of Residence.
- 4- To compare Left Handed and Right Handed Adolescent student w.r.to their Parental Education.

Data Analysis and Results

In order to attain the objectives of the study the number adolescents in terms of the above mentioned seven variables have been presented in Table 1.1

Table 1.1 Gender, Caste, Academic Stream, Academic achievement, Birth Order, Parental Education, and Area of Residence with regard to the sample adolescent Students

SN	Variables	Groups	Handedness of adolescent students		
			Total No Of Sample Adolescent	Left Handed Adolescents (100)	Right Handed Adolescents(100)
1	Academic Achievement	High Academic Achiever	70	32	38
		Moderate Academic Achiever	62	27	35
		Low Academic Achiever	68	41	27
2	Birth Order	First Born	51	39	30
		Others Born	149	79	70
3	Parental Education	Moderately Educated	97	42	55
		Lowey Educate	38	18	20
		Very Low Educated	63	38	25
4	Area of Residence	Rural	118	61	57
		Urban	82	39	43

*Numerals in these columns indicate number of adolescent students.

Entries in Table 1.1 reveal the following:-

1. 35% of adolescents were found to be high achievers whereas only 31% of adolescents were found to be moderate achievers. Only 34% of adolescents were found to be low achievers in their Academic Achievement in the total sample students (200). While 16% Left Hander were found to be high achievers whereas only 19% Right Hander adolescents were found to be high achievers 13.5% Left Hander and 17.5% Right Hander adolescents were found to be moderate achievers. 20.5% Left Hander and 13.5% right hander adolescents were found to be low achievers.
2. First Born were found 25.5% and Other Born were found 74.5% in the total sample students (200). Among the Left Hander population 39% were found first born whereas 61% were found other born. Whereas among the Right Hander population 30% were found first born and 70% were found other born.
3. The parental education of 48.99% adolescent students were found moderate, and 19.19% were to be found lowly educated whereas 31.81% were found very low educated parents. In the total sample student (198). 2 sample students were not considered in samples because their parents are not alive at the time of sampling which was already decided at the time of planning / delimitation.
4. 61% Left Hander and 57% Right Hander were found from Rural Area, whereas 39% Left Hander and 43% Right Hander were found from urban area as their area of residence.

Conclusions and their Significance

On the basis of the overall picture which emerged from the data presented in Table 1.1 it may be inferred that:-

The above findings are of immense significance for all those individuals who are involved in the process of 'educating' the adolescents. These findings may be utilized to make a quick decision with regard to the academic achievement and Socio Psychological Variable of an individual student. This may help teachers, parents and educational planners as well as educational administrators to formulate devise and adopt appropriate strategies to develop suitable techniques to fulfill the educational needs of the adolescent students differing in their handedness.

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