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A COMPARATIVE STUDY OF POSTURAL DEFORMITIES AMONG GOVERNMENT AND PRIVATE SCHOOL STUDENTS OF KALABURGI DISTRICT

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ABST<mark>RA</mark>CT

The present study was delimited to the Government and Private school students of Kalaburgi district. The study was also delimited to students of age group 13-19 years. The study was further delimited to the selected postural deformities viz. kyphosis, scholiosis. Lordosis, bow-leg, knock-knee and flat-feet. The total sample side was 200 (100 rural, 100 urban) school students of rural and urban areas of Kalaburgi district. Kyphosis was measured more in urban school students while as knock-knee and flat feet were measured more in rural areas respectively. The kyphosis, scoliosis, lordosis, bow-leg, knock-knee were measured with the help of plumb line while as the flat- feet was measured with the help of foot impression. Frequencies and Percentage were used to analyze date. The study revealed that (11%) school students were Postural deformed. It was found that rural school students (7%) were more pastorally deformed then that of urban school students (4%). The date of study was analyzed to the test the association between the rural and urban school students under age of 13-18 years.

KEYWORDS: Postural deformities, rural and urban school students of Kalaburgi district etc.

INTRODUCTION

The word posture comes from the Latin verb pioneer, which means "to put or place". The general concept of human posture refers to 'the carriage of the body as a whole, the attitude of the body, or the position of the limbs (the arms and legs)". Posture is described as one in which head is held erect, the chest is forward, the shoulders are drawn back and the abdomen is retracted. Posture involves the alignment of body parts to achieve balance in sitting, standing, walking or physical activity. The boney skeleton and muscles govern the balance, which varies with age, occupation, type of activity, physique and health. Posture means carriage or the manner of holding one's body. Posture is important because there is a relationship between good health and good body posture. Good posture may be defined as that accustomed position which enables the body to

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do it functions effectively. The proper use of energy is possible when we are in a good posture.

NEED OF GOOD POSTURE

Sitting and standing with good posture places the least strain on our muscles and ligaments and keeps the different parts of the body balanced. Our back has a natural curve and when the curve is resting or neutral, the muscles are being used properly and therefore experience the least strain. We can have good (or bad) posture when we are standing, sitting or lying down.

OBJECTIVES OF THE STUDY

- ✓ To study the prevalence of postural deformities among rural school students of Kalaburgi district.
- ✓ To study the prevalence of postural deformities among urban school students of Kalaburgi district
- To compare the postural deformities between Government and Private school students of kalaburgi district.

METHOD AND PROCEDURE

Sample: Two hundred subjects including boys and girls from rural as well as urban areas of Kalaburgi district under age group of 13-19, in which 100 subjects were from rural and 100 subjects from urban schools, were taken as a sample for present investigation on random sampling basis.

TOOLS OF THE STUDY

Plumb-Line and foot impression tools were used for sampling because of the limitations of equipments. Plumb line and foot impression are the orthodox tools used to measure postural deformities.

 Table 1: Shows the overall deformities in government and private school students of kalaburgi district.

No. of subject	ts possessing	gueiornity

S. No.	Type of Deformity	Rural	Urban	Total
1	Kyphosis	02	06	08
2	Scoliosis	02		02
3	Lordosis	01	1.3	01
4	Bow-Leg	02	- Y	02
5	Knock-Knee	06	03	09
6	Flat-Feet	03	01	04





PROCEDURE OF THE STUDY

Samples were collected from various Secondary and Hr. secondary schools of both rural as well as urban areas of Kalaburgi district under age group 13-19. For collecting data, subjects were asking etc to stand in attention position and a plumb line was used to check their proper posture. The plumb line was dropped from

top (head) to bottom (between the heels). Any deviation in the plumb line showed the signs of postural deformities. The alignment of shoulders, thighs and knees were also checked with the same procedure.

Foot Impression: A flat surface or flat board was used on which the subjects were asked to place foot leaving behind an impression which showed whether the arch is fallen or not. The impression was drawn by sand.

ANALYSIS AND INTERPRETATION OF DATA

The collected data was tabulated and computerized to draw out the meaningful conclusions. Frequenting and percentage were used to analyze the data. The outputs generated are presented in the tables and graphs below.

Table shows overall deformities among the Rural and Urban School students of Kalaburgi district.

Table 1.1: Prevalence of Kyphosis in rural School students of Kalaburgi district

	Observation	% Age
Kyphotic	02	02%
Non-Kyphotic	98	98%
Total	100	100%

The table no. 1.1 shows that 02% subjects were suffereing from Kyphosis

Graph1.1: Prevalence of Kyphosis in rural School students of Kalaburgi district



Table 1.2: Prevalence of Scoliosis in rural school students of Kalaburgi district



The table no. 1.2 shows that 02% subjects were suffering from Scoliosis.

Graph1.2: Prevalence of Scoliosis in rural school students of Kalaburgi district



Table 1.3: Prevalence of Lordosis in rural school students of Kalaburgi district

	Observation	%age
Lordotic	01	01%
Non-Lordotic	99	99%
Total	100	100%

The table no. 1.3 shows that 01% subject were suffering from Lordosis.





Table 1.4: Prevalence of bow-Leg in rural school students of Kalaburgi district.

	Observation	%age
Bow Legged	02	02%
Non Bow Leged	98	98%
Total	100	100%

The Table no. 1.4 shows that 02% subject were suffering from BowLeg





Table 1.5: Prevalence of Knock-knee in rural school students of Kalaburgi district



The table no. 1.5 shows that 06% subjects were suffering from Knock-knee.

Graph1.5: Prevalence of Knock-knee in rural school students of Kalaburgi district



Table 1.6.

	Observation	%age
Flat Feet	03	03%
Non Flat Feet	97	97%
Total	100	100%

The table no. 1.6 shows that 0.3 subjects were suffering from FlatFeet

Table 2.1: Prevalence of Kyphosis in urban school students of Kalaburgi district

Kyphotic	06	06%
Non-Kyphotic	94	94%

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	Total	100	100%	

The table no. 2.1 shows that 06% subjects were suffering from Kyphosis.

Table 2.2: Prevalence of Scoliosis in urban school students of Kalaburgi district

	Observation	%age
Scoliotic	00	00%
Total	100	100%

The table no. 2.2 shows that no subjects were suffering from Scoliosis

Table 2.3: Prevalence of Lordosis in urban school students of Kalaburgi district

	Observation	%age
Lordotic	00	00%
Non-Lordotic	100	100%
Total	100	100%

The table no. 2.3 shows that no subjects were suffering from Lordosis.

Table 2.4: Prevalence of Bow-Leg in urban school students of Kalaburgi district

	Observation	%age
Bow Leg	00	00%
Non Bow Leg	100	100%
Total	100	100%

The Table no. 2.4 shows that 00% subjects were suffering from Bow-Leg

CONCLUSION

It was concluded that after interpretation and analysis of the result, the postural deformities were prevalence in rural school students of Kalaburgi district. The postural deformities were prevalence in urban school students of Kalaburgi district. There was a significant difference in the number of postural deformity cases among rural and urban school students of Kalaburgi district.

SUGGESTIONS

After analysis of the results and discussion with the supervisor, following suggestions are given in order to help the young generation of both Government and private school students of kalaburgi district to develop a good posture-

- Various counseling programs should be conducted by the authorities, which will help the schools and the society to develop and maintain good posture.
- ✓ Stress should be laid on personal hygiene. Proper dressing and footwear should be checked.
- \checkmark Yoga should be introduced in the daily routine to avoid any sort of postural deformities.
- ✓ Variety of physical activities should be introduced so that every student will show active participation.
- Postural deformities should be diagnosed at early stage and the remedies to correct that should be given to such individual accordingly.

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