

## **ABSTRACT**

### **TITLE:**

To study the factors associated with the difference in crotch measurement for children 6-14 years.

### **BACKGROUND:**

In Pakistan no significant research has been conducted on anthropometric Measurement for children so there is a need to conduct a research to take the body measurement and find out the factor that are associated with the difference in body measurement of Pakistani children to provide a guideline for the sizing system of children's apparel.

### **OBJECTIVE:**

- To analyze crotch measurement of children aged 6-14 years.
- Factors affecting the crotch measurement of aged 6-14 years girls/boys.
- To find out the differences between crotch measurement of boys and girls.

### **METHODOLOGY:**

This study was conducted in Karachi; Pakistan. The students of 6 to 14 years from high, middle and low level areas are the population in this study. 4 towns were randomly selected from the total 18 towns of Karachi. From each town 3 schools were selected with respect to income level. Total samples size is 54000 children. The SPSS was used for data entry and analyze the selected measurement.

### **RESULT AND DISCUSSION:**

The overall result and discussion shows that the growth rate in middle income is greater than in low and high and in boys the growth rate is faster in low income as compared to other income levels. Result of BMI shows that growth spurt of underweight boys increases very rapidly than in normal weights because of their pubertal changes. BMI of girls of underweight increases slowly and BMI of normal weights increases gradually i.e. by 2-4cm.

### **CONCLUSION:**

The growth rate is higher in middle income in girls and in low income in boys.