

## **ABSTRACT:**

**Name of student:** Fara Saleem

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**Advisor Name:** Mrs Fauzia Riaz.

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### **Title:**

The factors associated with the differences in hip measurement of children age 6- 14 years

### **Background:**

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

### **Objectives:**

- 1 To find out the factors associated with the difference in hip measurement of children aged 6 -14 years.
- 2 To find out the difference between the hip measurement of girls and boys aged 6 – 14 years.
- 3 To analyze hip measurement of girls and boys aged 6 - 14 years

### **Methodology:**

To analyze the standard body sizes for the children's aged 6 - 14 years a quantitative study design was used. A sample size of 5400 children's of low, middle and high income families of different age group and the sample data for this study was the four randomly selected towns of Karachi and from each towns three school were selected with respect to income level. The data was entered and analyzed using SPSS version 11.5.

### **Result And Discussion:**

Results of the study shows that the growth rate of children's belongs to middle income were greater as compare to other income level. According to BMI it was found that the hip measurement of under weight children's were increase normally but it was greater in normal weight children.

### **Conclusion:**

Socio economic status and BMI are the main factors associated with the differences in hip measurement of children's age 6 - 14 years and it is also concluded that the differences in hip measurement is greater in girls as compare to boys of age 6 –14 years.